Gregory J. Matthews

Contact Information

Department of Mathematics and Statistics
1032 W. Sheridan Road
Loyola University Chicago
Chicago, IL 60660

E-mail: gjm112@gmail.com
Blog: www.statsinthewild.com

Research Interests

statistics in sports; statistical consulting; statistical shape analysis; missing data; multiple imputation; public health; synthetic data; statistical genetics; genome-wide association studies; statistical disclosure control

Education

University of Massachusetts, Amherst, MA

Post-doctoral Research Fellow, Biostatistics, 2011-2014

- Advisor: Andrea S. Foulkes

University of Connecticut, Storrs, CT

Ph.D., Statistics, 2011

- Dissertation: "Selected Topics of Statistical Disclosure Limitation"
- Advisor: Ofer Harel

Worcester Polytechnic Institute, Worcester, MA

M.S., Applied Statistics, 2005
B.S., Actuarial Science (with distinction), 2004

Academic Experience

Loyola University Chicago, Department of Mathematics and Statistics, Chicago, IL
Founding Director, Center for Data Science and Consulting (CDSC) **July, 2023 - present**
Associate Professor **August, 2020 - present**
Director, Data Science Program **May, 2019 - June, 2023**
Assistant Professor **August, 2014 - July, 2020**

University of Massachusetts, Department of Public Health, Amherst, MA
Lecturer **September, 2013 - August, 2014**

University of Massachusetts, Institute for Computational Biology, Biostatistics, and Bioinformatics (ICB3), Amherst, MA
Associate Director **September, 2013 - August, 2014**

University of Massachusetts, Department of Public Health, Amherst, MA
Post-doctoral Research Fellow **June, 2011 - August, 2014**

University of Connecticut, Department of Statistics, Storrs, CT
Instructor **September, 2010 - May, 2011**

University of Connecticut Health Center, Institute for Public Health Research, E. Hartford, CT
Research Assistant **September, 2007 - May, 2011**

University of Connecticut, Department of Statistics, Storrs, CT

Teaching Assistant **September, 2007 - May, 2010**

Worcester Polytechnic Institute, Department of Mathematical Sciences, Worcester, MA
Teaching Assistant **September, 2003 - May, 2005**

Worcester Polytechnic Institute, Department of Mathematical Sciences, Worcester, MA
Peer Learning Assistant **September, 2001 - May, 2003**

Teaching Experience

Loyola University Chicago, Department of Mathematics and Statistics, Chicago, IL

Predictive Analytics (STAT338) **Fall 2025**
Introduction to Applied Statistics Using R (STAT401) **Fall 2025**

Data Science Consulting (STAT370) **Spring 2025**

Statistical Computation and Simulation (STAT321/421) **Fall 2024**

Introduction to Applied Linear Regression Analysis (STAT408) **Spring 2024**

Introduction to Data Science (DSCI401) **Fall 2023**

Statistical Computation and Simulation (STAT 321/421) **Summer 2023**

Fundamentals of Data Science with R (DSCI101) **Spring 2023**
Data Science Consulting (STAT370) **Spring 2023**

Introduction to Data Science (DSCI401) **Fall 2022**
Predictive Analytics (STAT338/488 **Fall 2022**

Introduction to Probability and Statistics (STAT203) **Spring 2022**
Rating Grad - 4.25/5.0
Data Structures and Algorithms for Informatics (COMP231) **Spring 2022**
Rating Grad - 4.75/5.0

Statistical Computation and Simulation (STAT 321/421) **Fall 2021**
Rating Grad - 3/5, UGrad - 3.5/5.0
Predictive Analytics (STAT 388/488) **Fall 2021**
Rating Grad - 3.13/5, UGrad - 4.5/5.0
Data Science Consulting (STAT370) **Fall 2021**

Nonparametric Statistics (STAT 388/488) **Spring 2021**
Rating Grad - 4.55/5.0
Mathematical Statistics II (STAT 305) **Spring 2021**

Statistical Computation and Simulation (STAT 321/421) **Fall 2020**
Rating UGrad - 5/5.0
Predictive Analytics (STAT 388/488) **Fall 2020**
Rating Grad - 4.5/5.0

Fundamentals of Staitstics (STAT 103) **Summer 2020**
Rating 3.9/5.0

Nonparametric Statistics (STAT 388/488) **Spring 2020**

Rating	Grad - 4.4/5.0, UGrad - 4.5/5.0
Introduction to Biostatistics (STAT 335)	**Spring 2020**
Rating	UGrad - 4.36/5.0
Statistical Computation and Simulation (STAT 321/421)	**Fall 2019**
Rating	Grad - 4.78/5.0, UGrad - 4.33/5.0
Predictive Analytics (STAT 388/488)	**Fall 2019**
Rating	Grad - 4.67/5.0, UGrad - 4.67/5.0
Nonparametric Statistics (STAT 388/488)	**Spring 2019**
Rating	Grad - 4.2/5.0
Mathematical Statistics II (STAT 305)	**Spring 2019**
Rating	UGrad - 3.2/5.0
Undergraduate Seminar (STAT 390)	**Spring 2019**
Rating	Grad - 3.2/5.0
Predictive Analytics (STAT 388/488)	**Fall 2018**
Rating	UGrad - 4.7/5.0
Sampling (STAT 388/488)	**Fall 2018**
Rating	Grad - 4.7/5.0
Introduction to Statistics (STAT 103)	**Summer 2018**
Rating	UGrad - 4.2/5.0
Mathematical Statistics II (STAT 305)	**Spring 2018**
Rating	UGrad - 3.8/5.0
Statistical Computation and Simulation (STAT 321/421)	**Spring 2018**
Rating	UGrad - 4.6/5.0, Grad - 4.6/5.0
Non-parametric Statistics (STAT 388/488)	**Spring 2018**
Rating	Grad - 4.6/5.0
Predictive Analytics (Ind. Study)	**Spring 2018**
Introduction to Biostatistics (STAT 335)	**Spring 2017**
Rating	UGrad - 3.8/5.0
Data Visualization and Missing Data Analysis (STAT 388/488)	**Spring 2017**
Rating	Grad - 4.3/5.0
Predictive Analytics (STAT 388/488)	**Fall 2016**
Rating	Grad - 4.2/5.0
Statistical Consulting (STAT 488)	**Fall 2016**
Undergraduate Seminar (STAT 390)	**Fall 2016**
Introduction to Statistics (STAT 103)	**Summer 2016**
Rating	UGrad - 4.4/5.0
Non-parametric Statistics (STAT 388/488)	**Spring 2016**
Rating	UGrad - 4.8/5.0, Grad - 4.3/5.0
Introduction to Statistics (STAT 103)	**Spring 2016**
Rating	UGrad - 4.2/5.0
Introduction to Applied Linear Regression Analysis (STAT 408)	**Fall 2015**

Rating — Grad - 4.8/5.0
Statistical Consulting (STAT 488) — **Fall 2015**
Rating — Grad - 4.5/5.0
Undergraduate Seminar (STAT 390) — **Fall 2015**
Actuarial Seminar (STAT 396) — **Fall 2015**
Non-parametric Statistics (Ind. Study) — **Fall 2015**

Introduction to Statistics (STAT 103) — **Summer 2015**

Bayesian Data Analysis (Ind. Study) — **Spring 2015**
Quantitative Bioinformatics (STAT 337/437) — **Spring 2015**
Rating — UGrad - 4.6/5.0, Grad - 3.6/5.0
Introduction to Biostatistics (STAT 335) — **Spring 2015**
Rating — UGrad - 4.5/5.0

Introduction to Applied Linear Regression Analysis (STAT 408) — **Fall 2014**
Rating — Grad - 4.2/5.0
Non-parametric Statistics (STAT 388/488) — **Fall 2014**
Rating — UGrad - 4.9/5.0, Grad - 4.1/5.0

University of Massachusetts, Department of Public Health, Amherst, MA
Intermediate Biostatistics — **Spring 2014**
Introduction to Biostatistics — **Spring 2014**
Introduction to Biostatistics — **Fall 2013**

University of Connecticut, Department of Statistics, Storrs, CT
Statistical Methods — **Spring 2011**
Statistical Methods — **Fall 2010**

Projects advised

Loyola University Chicago, Department of Mathematics and Statistics, Chicago, IL

Density Estimation with Missing Data — **September 2024 - present**
Students: Sean Kerr and Mae Norman

Propensity Score Matching in the Presence of Missing Data — **January 2025 - present**
Students: Kevin Rabinak

Propensity Score Matching in the Presence of Missing Data — **January 2025 - present**
Students: Kevin Rabinak

M.S. Thesis — **January 2025 - present**
Students: Claudia Krueger

Statistical Evaluation of Competition Designs — **September 2024 - present**
Students: Zach Culp and Josie Peterburs

Beyond the Field: Sports Analytics Beyond Performance Evaluation — **January 2024 - present**
Students: Lucas da Cunha Godoy (University of Connecticut)

M.S. Thesis — **September 2023 - present**

Students: Aaron Myrold

M.S. Thesis **September 2023 - present**
Students: Niru Shanbag

USRE: Nim and Basketball **Summer 2024**
Students: Kevin Rabinek and Solana Tabor

Statistical Evaluation of Outdoor Field Hockey Penalty Corners **September 2023 - May 2024**
Students: Samuel Hughes (University of Connecticut)

Sexual Dimorphism in Stickleback Fish **September 2022 - May 2024**
Students: Akhil Ghosh

Propensity Score Matching in the Presence of Missing Data **September 2021 - May 2024**
Students: Tomas Auruskevicius and Thanojkumar Guntupalli

Sexual Dimorphism in Stickleback Fish **October 2021 - May 2022**
Students: Quang Nguyen, Maddie Armer, and Qing Gong

Evaluating the Scoring System of Competitive Sport Climbing **July 2021 - May 2022**
Students: Quang Nguyen and Hannah Butler

Estimating a Baseball Aging Curve Accounting for Player Dropout **October 2020 - May 2022**
Students: Quang Nguyen and Kathryne Piazza

Looking for the Hot-Hand in Basketball with Continuous Time Hidden Markov Models. **Sept 2020 - May 2021**
Students: Robert Tedesco

Missing data in shape analysis **May, 2018 - Mayb 2019**
Students: Grady Flanary and Kajal Chokshi

Genome-wide Association Studies of African-American Cohorts (CARBON grant) **September, 2018 - May, 2019**
Students: Peter Fiorica

RIPPEN: Rush Independent Passing Player Efficiency Number **December, 2017 - May, 2018**
Students: Rusty Cain and Donald Stolz

Post-Stratification, Raking, and Partial Raking **January, 2018 - May, 2019**
Students: Joy Lee

Post-Stratification, Raking, and Partial Raking **September, 2017 - December, 2017**
Students: Emily Kotnik

Randomness in Choreography **January, 2017 - May, 2017**
Students: Sofia Mazich

SABR Diamond Dollars Competition **January, 2017 - May, 2017**
Students: Donner Kahl, Brian Ahern, Donald Stolz

Invited book chapter on statistical disclosure control **August, 2016 - December, 2017**

Students: Therese Henle

Missing data in shape analysis **May, 2016 - May, 2017**
Students: Thomas Atchley

Quantifying Dental Visits for Children and Young Adults **March, 2016 - June, 2016**
Students: Stephanie Oliva

Examining the robustness of the openWAR replacement-level definition **January, 2016 - June, 2016**
Students: Inga Milo

Accurately placing landmarks on the occlusal surface of fossil bovid teeth: Expert Intelligence vs Artificial Artificial Intelligence. **January, 2016 - December, 2016**
Students: Maxwell Luetkemeier

Examining Indonesian attitudes towards vaccines through Twitter **September, 2015 - May, 2016**
Students: Lia Amelia

Comparing machine learning algorithms for classifying the tribe and species of fossil bovid teeth using the outline of the occlusal surface of the tooth **September, 2015 - December, 2016**
Students: Hongjie Gu and Maxwell Luetkemeier

Analysis of Chicago energy usage **June, 2015 - May, 2016**
Students: Noah Javadi

Statistical disclosure in baseball hall of fame voting **June, 2015 - December, 2015**
Students: Petala Gardenia da Silva Estrela Tuy

Estimating confidence intervals for the area under the receiver-operating characteristic (ROC) curve in the presence of missing data **June, 2015 - December, 2016**
Students: Hunyong Cho

Kaggle: Criteo Display Advertising Challenge **August, 2014 - May, 2015**
Students: Hunyong Cho and Fan Yang

Professional Experience

Cincinnati Reds Baseball Team, Cincinnati, OH
Statistical Consultant **January 2024 - present**

Alley Cat Allies, Bethesda, MD
Statistical Consultant **January 2023 - present**

Baseball Prospectus, Chicago IL
Senior Statistical Adviser and Intern **April 2015 - present**

MessageSling.com, Worcester, MA
Data Scientist **May, 2008 - January, 2009**

1-800-FREE-411/Jingle Networks, Burlington, MA
Statistical Consultant **May, 2007 - August, 2007**

Brookstone, Direct Marketing Department, Merrimack, NH
Statistical Analyst, Direct Marketing Department **November, 2005 - May, 2007**

BAE Systems, Nashua, NH
Summer Intern **May, 2004 - August, 2004**

Boys and Girls Club of Metro West, Marlboro, MA
Summer Camp Counselor **June, 2001 - August, 2001**

Boys and Girls Club of Metro West, Marlboro, MA
Summer Camp Counselor **June, 2002 - August, 2002**

Springfield Jewish Community Center, Springfield, MA
Summer Camp Counselor **June, 2000 - August, 2000**

Papers

Peer-reviewed Journal Articles

Whalen, M.C.R., Mills, B., and Matthews, G.J. "Empirical Determination of Baseball Eras: Multivariate Change Point Analysis in Major League Baseball". *Journal of Applied Statistics* (Accepted).

Bohnert, A.M., Burns, M.T.S., Adornetti, J.P., Matthews, G.J., Tu, P. L., Chen, M.A., Moon, H., Kim, J., & Chen, E. "Evaluating associations between neighborhood resources and sleep health among urban-dwelling Black adolescents". *Sleep Health* (In Press).
DOI: https://doi.org/10.1016/j.sleh.2025.07.001

Krueger, K., Towle, I., Matthews, G.J., Fernandez, A.A., and Hlusko, L. "Tracking molar wear in captive baboons: sex and age effects using a modified Scott scoring system," *American Journal of Biological Anthropology.* (In Press)

Vasilopoulos, A. and **Matthews, G.J.** "Cross-validation Optimal Fold-Number for Model Selection". *American Journal of Undergraduate Research.* 21:3 (2024).

Lemon, N.M., Taylor, L.K., Rech, M.A., Nguyen, Q., Matthews, G.J., Lew, G., and Lovett, S. "A Higher D-Dimer Threshold can be used to Predict Pulmonary Embolism in Patients with COVID-19 Presenting to the Emergency Department". *Journal of the American College of Emergency Physicians Open (JACEP Open).* 21:3 (2024)

Brophy, J.K., **Matthews, G.J.**, Schnitzler, N., Bharath, K., Kurtek, S, and Harel, O. "Classification of Bovidae fossils from Gladysvale, South Africa using elastic shape analysis". *Journal of Archaeological Science.* 166 (2024)
DOI: https://doi.org/10.1016/j.jas.2024.105959

Nguyen, Q. and **Matthews, G.J.** "Filling the gaps: A multiple imputation approach to estimating aging curves in baseball". *Journal of Sports Analytics.* 10:1 (2024): 77-85. DOI: https://doi.org/10.3233/JSA-240744 (Note: CMSAC Reproducible Research Award, Finalist, Open Track, 2022).

Taylor, R.J., **Matthews, G.J.**, Aseltine, Jr., R.H., and Fields, E.C. "Clinical Outcomes in Borderline and Locally Advanced Pancreatic Cancer with the Addition of Low-Dose-Rate Brachytherapy to Standard of Care Therapy". *Brachytherapy.* 23:3, (2024): 355-359

Domnguez-Rodrigo, M., Brophy, J.K., **Matthews, G.J.**, Pizarro-Monzo, M., and Baquedano, E. "African bovid tribe classification using transfer learning and computer vision". *Annals of the New York Academy of Sciences.* (2023) DOI: https://doi.org/10.1111/nyas.15067

Nguyen, Q., Yurko, R. and **Matthews, G.J.** "Here Comes the STRAIN: Analyzing Defensive Pass Rush in American Football with Player Tracking Data". *The American Statistician.* (2023) DOI: https://doi.org/10.1080/00031305.2023.2242442 (Note: Editor's Choice Collection).

Baumer, B., **Matthews, G.J.**, and Nguyen, Q. "Big Ideas in Sports Analytics and Statistical Tools for their Investigation". *WIREs Computational Statistics* (2023) DOI: doi.org/10.1002/wics.1612.

Brophy, J.K. and **Matthews, G.J.** "Reference database of teeth images from the Family Bovidae". *Scientific Data.* 9:396 (2022) DOI: https://doi.org/10.1038/s41597-022-01501-4

Nguyen, Q., Butler, H., and **Matthews, G.J.** "An Examination of Sport Climbing Competition Format and Scoring System". *Journal of Data Science.* (2022) (Note: CMSAC Reproducible Research Award, Winner, Open Track, 2021).

Matthews, G. J., Bharath, K., Kurtek, S., Brophy, J.K., Thiruvathukal, G. and Harel, O. "Shape-based classification of partially observed curves, with applications to anthropology" *Frontiers in Applied Mathematics.* 7 (2021)

L'Engle Williams, F., Brophy, J. K., **Matthews, G. J.**. "Elliptical Fourier analysis of crown shape in permanent mandibular molars from the late neolithic cave burials of Belgium" *Anthropologie.* 59:1 (2021): 1-14.

Brophy, J.K., Moggi-Cecchi, J., **Matthews, G. J.**, and Bailey, S.E. "Comparative morphometric analyses of the deciduous molars of Homo naledi from the Dinaledi Chamber, South Africa" *American Journal of Physical Anthropology.* 174:2 (2021): 299-314.

Elmore, R.T. and **Matthews, G. J.** "Bang the Can Slowly: An Investigation into the 2017 Houston Astros" *The American Statistician.* (2021) DOI: https://doi.org/10.1080/00031305.2021.1902391 (Note: CMSAC Reproducible Research Award, Winner, Open Track, 2020).

Zambom, A.Z. and **Matthews, G.J.**. "Sure independence screening in the presence of missing data." *Statistical Papers* 62:2 (2021): 817-845. DOI: https://doi.org/10.1007/s00362-019-01115-w.

Levine, T.P., **Matthews, G. J.**, Salama, L.A., and Yee, A. "Anteroposterior skeletofacial classification and its relationship to maxillary second molar buccopalatal angulation" *The Angle Orthodontist* 90:6 (2020): 851-856.

Krueger, K.L., Willman, J.C., **Matthews, G. J.**, Hublin, J, Prez-Prez, A. "Anterior tooth-use behaviors among early modern humans and Neandertals" *PLoS ONE* (2019)
DOI: https://doi.org/10.1371/journal.pone.0224573

Brophy, J.K., **Matthews, G. J.**, and Thiruvathukal, G.K. "An analysis on the effect of wear on

bovid tooth identification." *South African journal of science* 115:7-8 (2019): 1-5.

L'Engle Williams, F., Brophy, J. K., **Matthews, G. J.**, Hart, E., Marie-Antoinette, M.-A., Becam, G. "Neandertal mandibular molars from Hortus Cave, France." *Bulletins et Mmoires de la Socit d'Anthropologie de Paris*. 57:2 (2019): 115-126.

Cho, H., **Matthews, G.J.**, and Harel, O. "Confidence Intervals for the Area Under the Receiver Operating Characteristic Curve in the Presence of Ignorable Missing Data." *International Statistical Review*. 87:1 (2019): 152–177. DOI: https://doi.org/10.1111/insr.12277

Wood, J., **Matthews, G.J.**, Pellowski, J. and Harel, O. "Comparing Different Planned Missingness Designs in Longitudinal Studies." *Sankhya B*. (2018): 1-25.

Lopez, M., **Matthews, G.J.**., and Baumer, B. "How often does the best team win? A unified approach to understanding randomness in North American sport." *Annals of Applied Statistics*. 12:4 (2018): 2483-2516.

Matthews, G.J., Gu, H., Luetkemeier, M., Brophy, J.K., and Thiruvathukal, G. "Comparing Machine Learnings Algorithms for Classification of Fossilized Bovid Teeth." *Journal of Applied Statistics*. 45:15 (2018): 2773-2787. https://doi.org/10.1080/02664763.2018.1441381

Levine, T.P., **Matthews G.J.**, Caleor, H.F., and Badner, V.M. "Comparison of Inter- and Intra-Operator Differences for Cephalometric Landmark Identification on Three-Dimensional CBCT Images using Pro Plan CMF." *Journal of Dentistry and Dental Medicine*. 1:1 (2018): JDDM-1-104.

Matthews G.J., Thiruvathukal, G.K., Luetkemeier, M.P., Brophy, J.K. "Examining the use of Amazon's Mechanical Turk for edge extraction of the occlusal surface of fossilized bovid teeth." *PLoS ONE*. 12:7 (2017): e0179757.

Matthews, G. J., Aseltine, Jr., R.H. and Harel, O. "A review of statistical disclosure control techniques employed by web-based data query systems." *Journal of Public Health Management Practice*. 23:4 (2017): e1-e4.

Laniado, N., Oliva, S. and **Matthews, G.J.** "Children's Orthodontic Utilization in the United States: Socioeconomic and Surveillance Considerations." *American Journal of Orthodontics Dentofacial Orthopedics*. 152:5 (2017): 672-678.

Matthews, G.J., Tuy, P.G., and Arthur, R. "An examination of statistical disclosure issues related to publication of aggregate statistics in the presence of a known subset of the dataset using Baseball Hall of Fame ballots." *Journal of Quantitative Analysis of Sports*. 13:1 (2017): 1-10. (Note: Editor's Choice Collection.)

Matthews, G. J., Harel, O., Aseltine, Jr., R.H. "Privacy protection and aggregate health data: a review of tabular cell suppression methods (not) employed in public health data systems." *Health Services and Outcomes Research Methodology*. 16:4 (2016): 258-270.

Matthews, G.J. and Foulkes, A.S. "MixMAP: An R Package for Mixed Modeling of Meta-Analysis p Values in Genetic Association Studies." *Journal of Statistical Software*. 66:3 (2015): 1-11.

Matthews, G. J., and Harel, O. "An examination of data confidentiality and disclosure issues related to publication of images of empirical ROC curves." *Stat* 4:1 (2015): 235-245.

Baumer, B., Jensen, S. and **Matthews, G. J.** "OpenWAR: An Open Source System for Evaluating Overall Player Performance in Major League Baseball." *Journal of Quantitative Analysis in*

Sports, 11:2 (2015): 69-84. (Note: Editor's Choice Collection. Fourth most downloaded JQAS article. Society for American Baseball Research (SABR) Analytics Conference Research Awards for Contemporary Baseball Analysis, 2016)

Shah, R., **Matthews, G.J.**, Shah, R.Y., McLaughlin, C., Chen J., Wolman, M., Master, S.R., Chai, B., Xie, D., Rader, D.J., Raj, D.S., Mehta, N.N., Budoff, M., Fischer, M.J., Go, A.S., Townsend, R.R., He, J., Kusek, J.W., Feldman, H.I., Foulkes, A.S., Reilly, M.P.; CRIC Study Investigators. "Serum Fractalkine (CX3CL1) and Cardiovascular Outcomes and Diabetes: Findings From the Chronic Renal Insufficiency Cohort (CRIC) Study." *American Journal of Kidney Disease*, 66:2 (2015): 266-273. doi: 10.1053/j.ajkd.2015.01.021. Epub 2015 Mar 17.

Lopez, M and **Matthews, G.J.**. (co-first author) "Building an NCAA men's basketball predictive model and quantifying its success." *Journal of Quantitative Analysis in Sports*, 11:1 (2015): 5-12. (Note: Sixth most downloaded JQAS article.)

Baumer, B. and **Matthews, G.J.** "A Statistician Reads the Sports Page: There is No Avoiding WAR." *Chance*, 27:3 (2014): 41-44.

Mehta, N., **Matthews, G. J.**, Krishnamoorthy, P., Shah, R., McLaughlin, C., Patel, P., Budoff, M., Chen, J., Wolman, M., Go, A., He, J., Kanetsky, P. A., Master, S., Rader, D. J., Raj, D., Gadegbeku, C. A., Shah, R. Schreiber, M., Fischer, M. J., Townsend, R. R., Kusek, J., Feldmen, H. I., Foulkes, A., Reilly, M. P., and the Chronic Renal Insufficiency Cohort (CRIC) Study Investigators. "Higher plasma CXCL12 levels predict incident myocardial infarction and death in chronic kidney disease: Findings from the Chronic Renal Insufficiency Cohort Study." *European Heart Journal*, (2013): eht481.

Matthews, G. J. and Harel, O. "An examination of data confidentiality and disclosure issues related to publication of empirical ROC curves." *Academic Radiology*, 20 (2013): 889-896.

Ferguson, J., **Matthews, G. J.**, et. al. (co-first author). "Candidate gene association study of coronary artery calcification in chronic kidney disease: Findings from the Chronic Renal Insufficiency Cohort study." *Journal of the American College of Cardiology*, 62:9 (2013): 789-798.

Foulkes, A., **Matthews, G. J.**, Das, U., Ferguson, J.F., Lin, R. et. al. "Mixed modeling of Meta-Analysis P-values (MixMAP) identifies multiple gene loci for low density lipoprotein cholesterol." *PLoS ONE*, 8:2 (2013) e54812. (Note: Institute for Computational Biology, Biostatistics, and Bioinformatics (ICB3) Open Source Software Initiative (OSSI) best emerging software program, 2013)

Mehta, N., **Matthews, G. J.**, Krishnamoorthy, P., Budoff, M., Chen, J., Glenn, M., Go, A., He, J., Kanetsky, P.A., Master, S., Rader, D.J., Raj, D., Shah, R., Schreiber, M., Fischer, M.J., Townsend, R., Kusek, J., Feldman, H., Foulkes, A., Reilly, M.P. "Higher plasma CXCL12 levels predict incident cardiovascular disease events: Findings from the Chronic Renal Insufficiency Cohort Study." *Circulation*, 126:21 (2012).

Martin, K., **Matthews, G. J.**, Havens, E., Ferris, A., Schilling, E. and Harel, O. "If you stock it, will they buy it? Associations between healthy food availability within corner stores and customer purchases." *Public Health Nutrition*, 1:1 (2012): 1-6.

Matthews, G. J. and Harel, O. "Assessing the privacy of randomized vector valued queries to a database using the area under the receiver-operating characteristic curve." *Health Services and Outcomes Research Methodology*, 12:2-3 (2012): 141-155. (Note: Health Policy Statistics Sections (HPSS) Student Paper Award, 2012)

Matthews, G. J. and Harel, O. "Data confidentiality: A review of methods for statistical disclosure limitation and methods for assessing privacy." *Statistics Surveys*, 5 (2011): 1-29.

Stockhausen, R., Aseltine, Jr., R.H., **Matthews, G. J.** and Kaufman, B. "The perceived prognosis of endodontic treatment and implant therapy among dental practitioners." *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*, 111: 2 (2011): e42-e47.

Matthews, G. J., Harel, O. and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." *Health Services and Outcomes Research Methodology*, 10: 1 (2010): 1-15. (Note: Health Policy Statistics Sections (HPSS) Student Paper Award, 2010)

Matthews, G. J., Harel, O and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." *Journal of Statistical Computation and Simulation*, 80: 6 (2010): 609-624.

Refereed Proceedings Articles

Rajasekaran, S., Harel, O., Zuba, M., **Matthews, G. J.** and Aseltine, Jr., R.H. "Responsible data releases." *Proc. 9th Industrial Conference on Data Mining (ICDM)*, Springer LNCS (2009).

Unpublished Manuscripts

Aseltine, R.H., **Matthews, G. J.**. A Study of the Cost of Care Provided in Physician-Owned Hospitals Compared to Traditional Hospitals. Report prepared for the Physicians Advocacy Group and the Physicians Foundation. (2025) bit.ly/POHreport

Solovyova, O., Lewis, C., Aseltine, R.H., **Matthews, G. J.** "Safety and Efficacy of Peripheral Nerve Blocks and Epidural Anesthesia for Same-Day Bilateral Total Knee Arthroplasty"

Matthews, G. J. and Harel, O. "Receiver-operator characteristic curves and statistical disclosure control." Technical Report (13-04), The Department of Statistics, University of Connecticut.

Levine, T., **Matthews, G. J.**, and Bales-Kogan, A. "Facial traits as predictors to increased mesiodistal and buccolingual width of incisors in a Hispanic orthodontic patient population."

Matthews, G. J. and Harel, O. "Assessing the privacy of randomized vector valued queries to a database using the area under the receiver-operating characteristic curve." Technical Report (11-32), The Department of Statistics, University of Connecticut.

Martin, K., **Matthews, G. J.**, Havens, E., Ferris, A., Schilling, E. and Harel, O. "If you stock it, will they buy it? Associations between healthy food availability within corner stores and customer purchases." Technical Report (11-09), The Department of Statistics, University of Connecticut.

Black, A., Harel, O. and **Matthews, G. J.** "Techniques for Analyzing Intensive Longitudinal Data With Missing Values" Technical Report (10-32), The Department of Statistics, University of Connecticut.

Matthews, G. J. and Harel, O. "Data confidentiality: A review of methods for statistical disclosure limitation and methods for assessing privacy." Technical Report (10-24), The Department of

Statistics, University of Connecticut.

Matthews, G. J., Harel, O. and Aseltine, Jr., R.H. "Assessing privacy using AUC metric." Technical Report (09-27), The Department of Statistics, University of Connecticut.

Matthews, G. J., Harel, O and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Technical Report (08-15), The Department of Statistics, University of Connecticut.

Book Chapters

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Sessions Organized

"Incomplete data in non-traditional settings: angles, functions, and shapes". Eastern North American Region (ENAR) of the International Biometric Society (IBS) Spring Meeting, Nashville, TN. (March 2023).

Invited Panelist

Matthews, G. J. "Advancing a just and open media landscape". Loyola University Chicago. November 1, 2023.

Invited Presentations

Matthews, G. J., "Enjoy what you're doing more than half the time." Invited talk presented at the Section on Statistics in Sports Speaker Lunch at the Joint Statistical Meetings. (August 2025).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented via Zoom at Carnegie Mellon. (July 2025).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented Loyola University Chicago Library. (October 2024).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented Andres Institute of Art. (September 2024).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented via Zoom at

Carnegie Mellon. (July 2024).

Matthews, G. J. "An Introduction to R for the Digital Humanities". Talk presented at the Loyola Chicago Center for Digital Humanities, Loyola University Chicago, Chicago, IL (February 2024).

Matthews, G. J., Harel, O., Kurtek, S., Bharath, Thiruvathukal, G. Brophy, J.K., Flanary, G., Chokshi, K. "Statistical classification of partial observed shapes with application to fossilized bovid teeth". Talk presented at Statistics Department Colloquiumn, Federal University of Minas Gerais. (September 2023).

Matthews, G. J., Harel, O., Kurtek, S., Bharath, Thiruvathukal, G. Brophy, J.K., Flanary, G., Chokshi, K. "Statistical classification of partial observed shapes with application to fossilized bovid teeth". Talk presented at Eastern North American Region (ENAR) of the International Biometric Society (IBS) Spring Meeting, Nashville, TN. (March 2023).

Matthews, G. J. "Beyond Data Viz: Data Art." Invited talk presented at University of Oregon, Eugene, OR (May 2022). https://uoregon.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=b836d762-882f-4972-9b2e-aea60163381e

Elmore, R.T. and **Matthews, G. J.** "Bang the Can Slowly: An Investigation into the 2017 Houston Astros" Invited talk presented at Carnegie Mellon Sports Analytics Conference (CMSAC) reproducible research competition finalist. Carnegie Mellon, Pittsburgh, PA. (October 2020).

Lopez, M., **Matthews, G. J.** and Baumer, B. "How often does the best team win? A unified approach to understanding randomness in North American sport." Invited talk presented at UConn Sports Analytics Conference, Hartford, CT. Keynote Talk. (October 2019).

Lopez, M., **Matthews, G. J.** and Baumer, B. "How often does the best team win? A unified approach to understanding randomness in North American sport." Invited talk presented at New England Statistics Symposium, Hartford, CT. (May 2019).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at Loyola Academy, Willamette, IL. (April 2018).

Matthews, G. J. and Arthur, R.K. "Multi-chain hidden Markov models applied to streakiness in baseball pitchers." Invited talk presented at Carnegie Mellon Sports Analytics Conference (CMSAC). Carnegie Mellon, Pittsburgh, PA. (October 2017).

Matthews, G. J.. Discussant. Invited panel presented at Northwestern Sports Analytics Club. Northwestern University, Evanston, IL. (October 2017).

Matthews, G. J.. Discussant. Invited talk presented at Illinois Economics Association (IEA) 46th Annual Meeting, DePaul University, Chicago, IL. (October 2017).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented via Skype at Carnegie Mellon. (May 2017).

Matthews, G. J., "Beyond Data Visualization: Data Art." Invited talk presented at Fifteenth Annual ASA CT Chapter Mini-Conference : Innovative Methods of Communicating Data and Statistics. (April 2017).

Matthews, G. J. and Michael Lopez. "Building an NCAA men's basketball predictive model and quantifying its success." Invited talk presented to Carnegie Mellon via Skype. (March 2017).

Baumer, B., Lopez, M., and **Matthews, G. J.**. "Examine the randomness in sport." Invited talk presented at Illinois Economics Association (IEA) 45th Annual Meeting, DePaul University, Chicago, IL. (October 2016).

Matthews, G. J. and Michael Lopez. "Building an NCAA men's basketball predictive model and quantifying its success." Invited talk presented at Miami University, Oxford, OH. (March 2016).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at Invited Lecture Series, Miami University, Oxford OH. (March 2016).

Doshi, R., **Matthews, G.J.**, and Aseltine, R.H. "Race and Ethnic Disparities in Preventable Hospitalizations in Connecticut" Invited talk presented at CPHHP/CQM Brown Bag Lunch Seminar, University of Connecticut Health Center, Farmington, CT. (March 2016).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at Illinois Economics Association (IEA) 44th Annual Meeting, DePaul University, Chicago, IL. (October 2015).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at Chicago R users group (CRUG), Enova, Chicago, IL. (April 2015).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at the Loyola University Chicago Undergraduate Colloquium, Loyola University Chicago, Chicago, IL. (March 2015).

Matthews, G. J. "Introduction to R Studio and R Markdown." Invited talk presented at Loyola Seminar, Loyola University Chicago, Chicago, IL. (February 2015).

Matthews, G. J. "Experiential Learning in Statistics." Invited talk presented at Mathematics Department Teaching Seminar, Loyola University Chicago, Chicago, IL. (December 2014).

Matthews, G. J. "An extremely brief introduction to knitR." Invited talk presented at Chicago R users group (CRUG), Jak's Tap, Chicago, IL. (November 2014).

Matthews, G. J. "Using Technology in Teaching and Research." Invited talk presented at Loyola University Chicago Statistics Seminar, Loyola University Chicago, Chicago, IL. (September 2014).

Matthews, G. J. and Harel, O. "Genome-wide association studies and multiple imputation." Invited talk presented at the Modern Modeling Methods (MMM) Conference, University of Connecticut, Storrs, CT. (May 2014).

Baumer, B., Jensen, S. and **Matthews, G. J.**. "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited talk presented at the Amherst College Sports Analytics Conference, Amherst College, Amherst, MA. (April 2014).

Matthews, G. J. "An Introduction to R Markdown". Invited talk presented at Hampshire College, Amherst, MA (February 2014).

Matthews, G.J. "MixMAP: An R package for implementing mixed modeling of meta-analysis p-values." Invited talk presented at the Institute for Computational Biology, Biostatistics, and Bioinformatics (ICB3) annual meeting, University of Massachusetts, Amherst, MA (November 2013).

Matthews, G. J. "Genome-wide Association Studies (GWAS) and Mixed Modeling of Meta-Analysis p-values (MixMAP)". Invited talk presented at University of Connecticut, Storrs, CT (June 2013).

Matthews, G. J. "devtools: A brief introduction". Invited lightning talk presented at R meet-up, University of Massachusetts, Amherst, MA (February 2013).

Matthews, G. J. and Harel, O. "Statistical Disclosure Control and Quantifying Privacy". Invited talk presented at the University of Massachusetts Statistics and Probability Seminar, University of Massachusetts, Amherst, MA (January 2013).

Matthews, G. J. and Harel, O. "Assessing the privacy of randomized multivariate queries to a database using the area under the receiver-operating characteristic curve". Invited talk presented at the Eastern North American Region (ENAR) of the International Biometric Society (IBS) Spring Meeting, Washington, D.C. (April 2012).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Invited talk presented at the Modern Modeling Methods (M3) Conference, University of Connecticut, Storrs, CT. (May 2011).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." Invited talk presented at the 25th New England Statistics Symposium (NESS), IBM student paper competition, University of Connecticut, Storrs, CT. (April 2011).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Invited talk presented at the Joint Statistical Meeting (JSM), Washington, DC. (August 2009).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Invited talk presented at the 23rd New England Statistics Symposium (NESS), University of Connecticut, Storrs, CT. (April 2009).

Contributed Presentations

Brophy, J.K., **Matthews, G. J.**, Schnitzler, N., Bharath,, K., Kurtek, S., Harel, O. "Classification of Bovidae fossils from Gladysvale, South Africa using elastic shape analysis" Talk presented at Joint Statistical Meetings (JSM), Portland, OR (August 2024).

Matthews, G. J., Harel, O., Kurtek, S., Bharath, Thiruvathukal, G. Brophy, J.K., Flanary, G., Chokshi, K. "Statistical classification of partial observed shapes with application to fossilized bovid teeth". Talk presented at Joint Statistical Meetings (JSM), Denver, CO (August 2019).

Matthews, G. J. and Petala, "An Examination of Statistical Disclosure Issues Related to Publication of Aggregate Statistics in the Presence of a Known Subset of the Data Set Using Baseball Hall of Fame Ballots ." Talk presented at Joint Statistical Meetings (JSM), Chicago, IL (August 2016).

Matthews, G. J. and Michael Lopez, "Building an NCAA men's basketball predictive model and quantifying its success." Talk presented at Joint Statistical Meetings (JSM), Seattle, WA (August 2015).

Balderama, E., Phillips, J., Harfoush, F. and **Matthews, G. J.**, "Using data for social change through interdisciplinary student engagement." Talk presented at Focus on Teaching and Learning, Loyola University Chicago, Chicago, IL (January 2015).

Baumer, B., Jensen, S. and **Matthews, G. J.**, "OpenWAR: An open source system for measur-

ing overall player performance in major league baseball." Poster presented at the New England Symposium on Statistics in Sport (NESSIS), Harvard University, Boston, MA (September 2013).

Matthews, G. J., Foulkes, A.S. and Reilly, M.P. "Mixed Modeling of Meta-Analysis P-Values (MixMAP) with Applications to Genome-Wide Association Studies of Low-Density Lipoprotein Cholesterol and Insulin Resistance." Contributed talk presented at the Joint Statistical Meeting (JSM), Montreal, Quebec, Canada. (August 2013).

Matthews, G. J., and Harel, O. "Assessing the privacy of randomized vector valued queries to a database using the area under the receiver-operating characteristic curve." Contributed talk presented at the Modern Modeling Methods (M3) Conference, University of Connecticut, Storrs, CT. (May 2013).

Matthews, G. J. and Harel, O. "Assessing the privacy of randomized vector valued queries to a database using the area under the receiver-operating characteristic curve." Contributed talk presented at the Joint Statistical Meeting (JSM), Health Policy Statistics Student Paper Awards, San Diego, CA. (August 2012).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Assessing the Inferential Privacy of Synthetic Data." Contributed talk presented at the Joint Statistical Meeting (JSM), Miami Beach, FL. (August 2011).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." Poster presented at the Eastern North American Region (ENAR) of the International Biometric Society (IBS) Spring Meeting, Miami, FL. (March 2011).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." Contributed talk presented at the Joint Statistical Meeting (JSM), Health Policy Statistics Student Paper Awards, Vancouver, British Columbia, Canada. (August 2010).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." Contributed talk presented at the University of Connecticut Student Seminar, University of Connecticut, Storrs, CT. (October 2009).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Poster presented at the Eastern North American Region (ENAR) of the International Biometric Society (IBS) Spring Meeting, San Antonio, TX. (March 2009).

Matthews, G. J., Harel, O., and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Contributed talk presented at the 22nd New England Statistics Symposium (NESS), Suffolk University, Boston, MA. (April 2008).

Wilbur, J., **Matthews, G. J.**, and Swift, A.W. "Generalized paired comparison models for comparing team strengths." Poster presented at the New England Symposium on Statistics in Sport (NESSIS), Harvard University, Boston, MA (September 2007).

Matthews, G. J. and Wilbur, J. "Improved paired comparison models for NFL point spreads by data transformation." Contributed talk presented at the 19th New England Statistics Symposium (NESS), University of Connecticut, Storrs, CT (April 2005).

PRESENTATIONS BY CO-AUTHORS

Nguyen, Q*., Yurko, R. and **Matthews, G.J.** "Here Comes the STRAIN: Analyzing Defensive Pass

Rush in American Football with Player Tracking Data". Featured talk presented at New England Symposium of Statistics in Sports (NESSIS). Harvard University, Boston, MA (September 2023).

Nguyen, Q*. **Matthews, G.J.** "Here Comes the STRAIN: Analyzing Defensive Pass Rush in American Football with Player Tracking Data". Invited talk presented at Big Data Bowl Finals. NFL Combine, Indianapolis, IN (March 2023).

Nguyen, Q.* and **Matthews, G. J.** "Estimating aging curves using multiple imputation to examine career trajectories of MLB offensive players." Invited talk presented at Carnegie Mellon Sports Analytics Conference (CMSAC) reproducible research competition finalist. Carnegie Mellon, Pittsburgh, PA. (November 2022). (Note: CMSAC Reproducible Research Award, Finalist, Open Track).

Nguyen, Q.*, Butler, H. and **Matthews, G. J.** "An examination of sport climbing's competition format and scoring system." Invited talk presented at Carnegie Mellon Sports Analytics Conference (CMSAC) reproducible research competition finalist. Carnegie Mellon, Pittsburgh, PA. (November 2021). (Note: CMSAC Reproducible Research Award, First Place, Open Track).

Nguyen, Q.*, Butler, H. and **Matthews, G. J.** "An examination of sport climbing's competition format and scoring system." Contributed poster at UConn Sports Analytics Conference (UCSAS) University of Connecticut, Storrs, CT (October 2021). (Note: Best student poster award winner)

Lopez, M.*, **Matthews, G. J.** and Baumer, B. "A framework for understanding strength-of-schedule in sports." Talk presented at Fields Sports Analytics Workshop (FSAW), Toronto, CA. (May 2018).

Lopez, M., **Matthews, G. J.** and Baumer, B.* "How often does the best team win? A unified approach to understanding randomness in North American sport." Talk presented at Fields Sports Analytics Workshop (FSAW), Toronto, CA. (May 2018).

Lopez, M., **Matthews, G. J.** and Baumer, B.* "How often does the best team win? A unified approach to understanding randomness in North American sport." Invited talk presented at Carnegie Mellon Sports Analytics Conference (CMSAC), Baltimore, MD. (October 2017).

Lopez, M., **Matthews, G. J.** and Baumer, B.* "How often does the best team win? A unified approach to understanding randomness in North American sport." Invited talk presented at Western Mass Statistics and Data Science Meetup, Amherst, MA. (October 2017).

Lopez, M., **Matthews, G. J.** and Baumer, B.* "How often does the best team win? A unified approach to understanding randomness in North American sport." Invited talk presented at New England Symposium on Statistics in Sports (NESSIS), Boston, MA. (September 2017).

Lopez, M., **Matthews, G. J.** and Baumer, B.* "How often does the best team win? A unified approach to understanding randomness in North American sport." Contributed talk presented at Joint Statistical Meetings (JSM), Baltimore, MD. (August 2017).

Matthews, G. J. and Lopez, M.* "(Much) better than lotto tickets: Analytics and NCAA tournament win probabilities." Invited talk presented at Columbia Business School, New York City, NY. (February 2016).

Brophy, J.K.*, **Matthews, G. J.** and Thiruvathukal, G.K. "Quantitative morphological analysis of bovid teeth using Elliptical Fourier Function Analyses." Contributed talk presented at Fourth International Symposium on Biological Shape Analysis, UCLA, Los Angeles, CA (June 2015).

Putnam, A.* , Brophy, J.K. and **Matthews, G. J.**."Maxillary First Molar Cusp Analysis of Plio-

Pleistocene Hominins." Contributed poster presented at Loyola University Chicago Undergraduate Anthropology Symposium, Loyola University Chicago, Chicago, IL (April 2015).

Harel, O.* and **Matthews, G. J.** "Assessing the privacy of synthetic medical records in the presence of auxiliary information." Invited talk presented at 27th International Biometric conference, Florence, Italy (July 2014).

Baumer, B.*, Jensen, S. and **Matthews, G. J.** "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Contributed talk presented at New England Statistics Symposium, Harvard University, Boston, MA. (April 2014).

Baumer, B.*, Jensen, S. and **Matthews, G. J.** "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Invited poster presented at Joint Mathematical Meetings, Baltimore, MS. (January 2014).

Baumer, B.*, Jensen, S. and **Matthews, G. J.** "OpenWAR: An Open Source System for Overall Player Performance in Major League Baseball." Contributed talk presented at the Joint Statistical Meeting (JSM), Montreal, Quebec, Canada. (August 2013).

Matthews, G. J., Harel, O.*, and Aseltine, Jr., R.H. "Examining the robustness of fully synthetic data techniques for data with binary variables." Invited poster presented at the Universitas 21's Early Career Researcher Workshop, Birmingham, UK. (December 2011).

Matthews, G. J. and Harel, O.* "Assessing the privacy of randomized multivariate queries to a database using the area under the receiver-operating characteristic curve". Poster presented at the The 9th International Conference on Health Policy Statistics (ICHPS), Cleveland, OH. (October 2011).

Matthews, G. J., Aseltine, Jr.*, R.H., and Harel, O. "A Review of Disclosure Limitation Methods Employed by Web-Based Data Query Systems." Contributed talk presented at the Joint Statistical Meeting (JSM), Miami Beach, FL. (August 2011).

Matthews, G. J., Harel, O.* and Aseltine, Jr., R.H. "Assessing database privacy using the area under the receiver-operating characteristic curve." Invited talk presented at the 8th International Conference on Health Policy Statistics (ICHPS), Washington, DC. (January 2010).

Rajasakaran, S., Harel, O., Zuba, M., **Matthews, G. J.** and Aseltine, Jr., R.H.* "Responsible Data Releases." Invited talk presented at the Joint Statistical Meeting (JSM), Washington, DC. (August 2009).

Presentations by Students

Culp, Z.*, Peterburs, J., McShane, R. and **Matthews, G. J.**. "A Statistical Evaluation of Competitions". Poster presented at the Connecticut Sports Analytics Symposium, Yale University, New Haven, CT (April 2025).

Chokshi, K., Flanary, G.* and **Matthews, G. J.**. "Shape Analysis: Applications in Taxonomic Classification of Teeth". Poster presented at the Weekend of Excellence, Loyola University Chicago, Chicago, IL (April 2019).

Lee, J. and **Matthews, G. J.**. "Partial Raking". Poster presented at the 12th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2019).

Chokshi, K.*, Flanary, G. and **Matthews, G. J.**. "Shape Analysis: Applications in Taxonomic Classification of Teeth". Poster presented at the 12th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2019).

Stolz, D.* and **Matthews, G. J.**. "RIPPEN: Rush Independent Passing Player Efficiency Number". Poster presented at the Weekend of Excellence, Loyola University Chicago, Chicago, IL (April 2018).

Luetkemeier, M., **Matthews, G. J.**, Thiruvathukal, G.K. and Brophy, J.K. "Accurately Placing Landmarks on the Occlusal Surface of Fossil Bovid Teeth: Expert Intelligence vs. Artificial Intelligence." Poster presented at the Joint Statistical Meetings, Chicago, IL (August 2016). (Student poster award from the statistical consulting section).

Javadi, N. and **Matthews, G. J.** "Chicago Energy Usage" Poster presented at the 9th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2016).

Amelia, L. and **Matthews, G. J.** "Assessing vaccine sentiment in Indonesia via Twitter" Poster presented at the 9th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2016).

Kuang, A*, Balderama, E. and **Matthews, G. J.** "Predicting the Space-Time Distribution of Red Banana Slugs." Poster presented at the 8th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2015).

Pobuda, M.*, Balderama, E. and **Matthews, G. J.** "Predicting the Space-Time Distribution of Atlantic Seabirds." Poster presented at the 8th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2015).

Cho, H.*, Yang, F., Balderama, E. and **Matthews, G. J.** "Comparison of How Different Tuning Parameters Affect Prediction Accuracy and Alternative ways of Measuring Prediction Accuracy." Poster presented at the 8th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2015).

Yang, F.*, Yang, F., Balderama, E. and **Matthews, G. J.** "CriteoLabs Display Advertising Challenge." Poster presented at the 8th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, Chicago, IL (April 2015).

Short Courses

"Text Mining in R." A full day workshop. Institute for Social Science Research (ISSR), University of Massachusetts, Amherst, MA. (June 2015).

"Text Mining in R." A full day workshop. Institute for Social Science Research (ISSR), University of Massachusetts, Amherst, MA. (May 2014).

"Biostatistics in Practice." (With Andrea S. Foulkes and Nicholas Reich). A full day workshop. Massachusetts Green High-Performance Computing Center, Holyoke, MA. (February 2014).

"Modern Approaches to Missing Data." (With Ofer Harel). A full day workshop as part of the New England Statistics Symposium. University of Connecticut, Storrs, CT. (April 2013).

"R: An introduction." A full day workshop. Neag School of Education, University of Connecticut, Storrs, CT. (May 2012).

"Modern Approaches to Missing Data." (With Ofer Harel). A five day short course as part of the Data Analysis Training Institute of Connecticut (DATIC). Neag School of Education, University of Connecticut, Storrs, CT. (May 2012).

Professional Development

Attended the New England Symposium of Statistics in Sports (NESSIS). Harvard University. Cam-

bridge, MA (September 2025).

Attended the Joint Statistical Meetings (JSM). Nashville, TN (August 2025).

Attended the Joint Statistical Meetings (JSM). Portland, OR (August 2024).

Attended Saberseminar. Chicago, IL (August 2024).

Attended the NFL Combine. Indianapolis, IN (March 2024).

Attended the Society of American Baseball Research (SABR) Analytics Conference. Phoenix, AZ (March 2024).

Attended the Carnegie Mellon Sports Analytics Symposium (CMSAC). Carnegie Mellon University. Pittsburgh, PA (November 2024).

Attended Saberseminar. Chicago, IL (August 2023).

Attended the Carnegie Mellon Sports Analytics Symposium (CMSAC). Carnegie Mellon University. Pittsburgh, PA (November 2023).

Attended the New England Symposium of Statistics in Sports (NESSIS). Harvard University. Cambridge, MA (October 2023).

Attended the Eastern North American Region (ENAR) section of the International Biometric Society (IBS) Conference, Nashville, TN (March 2023).

Attended the Joint Statistical Meetings (JSM). Washington, D.C. (August 2022).

Attended the Joint Statistical Meetings (JSM). Virtual. (August 2021).

Attended the Joint Statistical Meetings (JSM). Virtual. (August 2020).

Attended Rocky Mountain Sports Analytics Conference. University of Denver. Denver, CO. (August 2019).

Attended the Joint Statistical Meetings (JSM). Denver, CO. (August 2019).

Attended Edward Tufte Workshop. Chicago, IL. (August 2018).

Attended Vertically Integrated Projects (VIP) Workshop. Georgia Institute of Technology. Atlanta, GA (May 2018).

Attended the Joint Statistical Meetings (JSM). Baltimore, MD. (August 2017).

Attended the Joint Statistical Meetings (JSM). Chicago, IL. (August 2016).

Attended the Joint Statistical Meetings (JSM). Seattle, WA. (August 2015).

Attended the Fourth International Symposium on Biological Shape Analysis (ISBSA). University of California - Los Angeles, Los Angeles, CA. (June 2015).

Attended the Joint Statistical Meetings (JSM). Boston, MA. (August 2014).

Attended the Joint Statistical Meetings (JSM). Montreal, Quebec, Canada. (August 2013).

Attended the Joint Statistical Meetings (JSM). San Diego, CA. (August 2012).

Attended the Joint Statistical Meetings (JSM). Miami Beach, FL. (August 2011).

Attended the Eastern North American Region (ENAR) section of the International Biometric Society (IBS) Conference, Miami, FL (March 2011).

Attended the Joint Statistical Meetings (JSM). Vancouver, British Columbia, Canada. (August 2010).

Attended the Joint Statistical Meetings (JSM). Washington, D.C. (August 2009).

Attended the Eastern North American Region (ENAR) section of the International Biometric Society (IBS) Conference, San Antonio, TX. (March 2009).

Grants and Contracts

Funded

"Exploring Electronic Health Data to Identify the Diagnosis of Urinary Tract Infection Differences in Postmenopausal Women Using Hormone Replacement Therapy and Women Not Receiving Hormone Replacement Treatment". Center for Health Outcomes and Informatics Research (CHOIR). With Kimberly Rusk, Jennifer Gaucin, Sue Zelisko, Matt Stuart, and Mena Whalen. March 2025. **Amount: $17,600**

"Collaborative Research: Shape-Based Imputation and Estimation of Fragmented, Noisy Curves with Application to the Reconstruction of Fossil Bovid Teeth, National Science Foundation (NSF), With Sebastian Kurtek, Juliet Brophy, Ofer Harel, and Karthik Bharath. 2020-2023. **Amount: $300,000**

"Statistical analysis of partially observed shapes in two dimensions." National Science Foundation (NSF). With George Thiruvathukal, Ofer Harel, and Juliet Brophy. 2019-2020. **Amount: $150,000**

"Classifying Fossilized Bovid Tooth Fragments using Multiple Imputation and Machine Learning." Loyola University Chicago, Office of the Provost. Summer 2017. **Amount: $7,000**

Submitted

"A novel approach to using continuous covariate in logic regression with genomic applications". Center for Health Outcomes and Informatics Research (CHOIR). With Mena Whalen and Catherine Putonti. March 2025.

"Lactobacillus-Mediation of UPEC in the Urinary Microbiota", National Science Foundation (NSF), With Catherine Putonti and Swarnali Banerjee. October 2024.

"Identifying past environments and their relation to hominin evolution in southern African Plio-Pleistocene", National Science Foundation (NSF), With Juliet Brophy. July 2024.

"Data Science Corps Program at the Loyola Chicago Center for Data Science and Consulting",

National Science Foundation (NSF), With Mena Whalen, Alec Krueger. Matt Stuart, Swarnali Banerjee, and Catherine Putonti. June 2024.

"S-STEM: Loyola Interdisciplinary Quantitative Scholars Program", National Science Foundation (NSF), With Mena Whalen, Alec Krueger, George Thiruvathukal, and Catherine Putonti. March 2024.

"Improving assessment of air quality in Chicago in underrepresented neighborhoods". Center for Health Outcomes and Informatics Research (CHOIR). With Mena Whalen and Ping Jing. March 2024.

"NRT-HDR: Convergent Learning in Modern Biodata Science (CLIMBS)", National Science Foundation (NSF), With Heather Wheeler, Catherine Putonti, Stefan Kanzok, and Thomas Sanger. September 2021.

"S-STEM: Loyola Interdisciplinary Quantitative Scholars Program", National Science Foundation (NSF), With Mena Whalen, Alec Krueger, George Thiruvathukal, and Catherine Putonti. March 2024.

"Collaborative Research: Shape-Based Imputation and Estimation of Fragmented, Noisy Curves with Application to the Reconstruction of Fossil Bovid Teeth", National Science Foundation (NSF), With Sebastian Kurtek, Juliet Brophy, Ofer Harel, and Karthik Bharath. November 2019.

"Statistical analysis of partially observed shapes in two dimensions." National Science Foundation (NSF). With George Thiruvathukal, Ofer Harel, and Juliet Brophy. November 2017.

"Robotics running on STEAM." National Science Foundation (NSF). With Ronald Greenberg, George Thiruvathukal, Jeff Solin, Karin Lange. March 2017.

"Identifying past environments and their relation to hominin evolution in southern African Plio-Pleistocene." National Science Foundation (NSF). With Juliet Brophy, George Thiruvathukal, and Robert Kooima. December 2016.

"Reconstructing paleoenvironments via improved taxa classification through the use of supervised machine learning." National Science Foundation (NSF). With Juliet Brophy and George Thiruvathukal. October 2015.

"Synthetic data for statistical disclosure control of large-scale genetic data." National Institutes of Health (NIH). With Ofer Harel and Andrea Foulkes. April 2013.

Computing Skills

- R, Python, Matlab, SAS, SPSS, STATA, Minitab
- R Studio
- WinBUGS, JAGS, STAN
- SQL
- PLINK

Academic Honors and Awards

- ASA Section on Statistics in Sports, Significant Contributor Award - 2025
- Nominated or the St. Ignatius of Loyola Excellence in Teaching Award which recognizes faculty whose teaching involves a commitment to excellence, raises global awareness, promotes social justice and educates the whole student, Loyola University Chicago, 2024.
- NFL Big Data Bowl, Finalist, 2023. (with Quang Nguyen)
- Carnegie Mellon Sports Analytics Conference (CMSAC) Reproducible Research Award, Finalist (open track), 2022 (with Quang Nguyen).

- Nominated for the Sujack Award, Loyola University Chicago, 2021.
- Carnegie Mellon Sports Analytics Conference (CMSAC) Reproducible Research Award, First place (open track), 2021 (with Quang Nguyen and Hannah Butler).
- Carnegie Mellon Sports Analytics Conference (CMSAC) Reproducible Research Award, First place (open track), 2020 (with Ryan Elmore).
- Nominated or the St. Ignatius of Loyola Excellence in Teaching Award which recognizes faculty whose teaching involves a commitment to excellence, raises global awareness, promotes social justice and educates the whole student, Loyola University Chicago, 2019.
- Nominated for the Sujack Teaching Award, Loyola University Chicago, 2019.
- Nominated for the St. Ignatius Loyola Award recognizing faculty whose teaching involves a commitment to excellence, raises global awareness, promotes social justice and educates the whole student, Loyola University Chicago, 2017.
- Society for American Baseball Research (SABR) Analytics Conference Research Awards for Contemporary Baseball Analysis for the article "OpenWAR: An Open Source System for Evaluating Overall Player Performance in Major League Baseball." (with Ben Baumer and Shane Jensen). SABR.org, 2016.
- Nominated to the Hayes Award recognizing full-time faculty who demonstrate excellence in advising, mentoring, and supporting students, Loyola University Chicago, 2015.
- Nominated for the Distinguished Teaching Award, University of Massachusetts, 2013.
- Institute for Computational Biology, Biostatistics, and Bioinformatics (ICB3) Open Source Software Initiative (OSSI) best emerging software program for "MixMAP: An R package for implementing mixed modeling of meta-analysis p-values," 2013
- Health Policy & Statistics Section's (HPSS) Student Paper Award for "Assessing the privacy of randomized vector valued queries to a database using the area under the receiver-operating characteristic curve," American Statistical Association (ASA), 2012
- Health Policy & Statistics Section's (HPSS) Student Paper Award for "Assessing database privacy using the area under the receiver-operating characteristic curve," American Statistical Association (ASA), 2010
- Elected to the Phi Kappa Phi Honor Society, 2010
- Graduate student travel award, Department of Statistics, University of Connecticut, 2009
- Worcester Polytechnic Institute, Graduated with Distinction, 2003
- Sister Marita Joseph Award, Awarded to the senior with the highest grade in AP Calculus, Cathedral High School, 2000

Other Honors and Awards

- Participant on Sliced Season 1. Top 10 finisher. https://www.notion.so/Sliced-Show-c7bd26356e3a42279e2df (2022)
- 2018 Albert Nelson Marquis Lifetime Achievement Award.
- Stat Geek Idol Runner-up for "Expected Points And Efficiency," TeamRankings.com, 2013
- Final Four qualifier in Stat Geek Idol for "Measuring The Madness: 2012 Tournament Off To Craziest Start Ever," TeamRankings.com, 2012
- Sweet Sixteen qualifier in Stat Geek Idol for "Predicting The Sweet 16 Using A Classification Tree," TeamRankings.com, 2012
- Nominated for "Who's Who in America". 2011.
- Score of 800 on Math section of the GRE, 2007.

Committees and Service

- Co-organizer - Connecticut Sports Analytics Symposium (formerly UConn Sports Analytics Symposium), 2025
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2025.
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2025.
- Search Committee - Data Science Instructor, Loyola University Chicago, 2023
- Chair of the DataFest organization committee - Department of Mathematics and Statistics,

Loyola University Chicago, 2024.

- Co-organizer - Connecticut Sports Analytics Symposium (formerly UConn Sports Analytics Symposium), 2024
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2023.
- Co-organizer - UConn Sports Analytics Symposium, 2023
- Program Chair - UConn Sports Analytics Symposium, 2023
- Associate Editor - Journal of Quantitative Analysis in Sports, 2022 - present.
- Co-organizer - UConn Sports Analytics Symposium, 2022
- Associate Editor - Journal of Data Science, 2022 - present.
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2022.
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2021.
- Co-organizer - UConn Sports Analytics Symposium, 2021
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2020.
- Co-organizer - UConn Sports Analytics Symposium, 2020
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2019.
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2019.
- Instructor Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2018.
- Lecturer Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2018.
- Chair of Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2018.
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2018.
- Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2017.
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2017.
- Chair of the DataFest organization committee - Department of Mathematics and Statistics, Loyola University Chicago, 2016.
- Applied Mathematics Program Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2015.
- Department Assessment Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2015.
- Statistics Curriculum Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2015.
- Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2015.
- Volunteer Judge, 8th Annual Graduate School Interdisciplinary Research Symposium, Loyola University Chicago, 2015.
- Undergraduate statistics major evaluation committee, Loyola University Chicago, 2015.
- Faculty member in the bioinformatics program at Loyola University Chicago, 2015.
- Organized statistics seminar - Mike Lopez, "Measuring responses to incentives encouraged by the National Hockey League's point system," Loyola University Chicago, 2014.
- Statistics Search Committee - Department of Mathematics and Statistics, Loyola University Chicago, 2014.
- Computer Science Search Committee - Department of Computer Science, Loyola University Chicago, 2014.

- Manuscript Reviewer - Journal of Data Science
- Manuscript Reviewer - Annals of Applied Statistics
- Manuscript Reviewer - Journal of Research on Educational Effectiveness
- Manuscript Reviewer - Social Science and Medicine
- Manuscript Reviewer - International Statistical Review
- Manuscript Reviewer - American Journal of Public Health
- Manuscript Reviewer - Bioinformatics
- Manuscript Reviewer - Journal of the Royal Statistical Society (JRSS)
- Manuscript Reviewer - Biometrika
- Manuscript Reviewer - Journal of Sports Analytics
- Manuscript Reviewer - STAT
- Manuscript Reviewer - Cogent Psychology
- Manuscript Reviewer - American Statistician
- Manuscript Reviewer - Communications in Statistics
- Manuscript Reviewer - BMC Medical Research Methodology
- Manuscript Reviewer - F1000Research
- Manuscript Reviewer - Journal of the American Statistical Association
- Manuscript Reviewer - Statistics in Medicine
- Manuscript Reviewer - Journal of Statistical Software
- Manuscript Reviewer - Journal of Quantitative Analysis in Sports
- Manuscript Reviewer - PLoS One
- Manuscript Reviewer - IEEE Transactions on Information, Forensics, and Security
- Manuscript Reviewer - Statistical Science
- Manuscript Reviewer - Journal of Zhejiang University SCIENCE B
- News Editor for Significance Magazine, 2011-2012
- Student representative to the Connecticut chapter of the American Statistical Association (ASA), 2010

Consulting

- Mindyra
- Cincinnati Reds
- Physicians Advocacy Institute
- The Physicians Foundation
- CivaTech Oncology
- Outlier.org, Inc.
- George W. Bush Institute
- Hubbard Decision Research
- University of Connecticut Health Center
- Alley Cat Allies
- 1-800-FREE-411/Jingle Networks

Professional Memberships

- American Statistical Association (ASA)
- Institute of Mathematical Statistics (IMS)
- Eastern North American Region (ENAR) of the International Biometric Society (IBS)

Media

- Contributor to FiveThirtyEight.com
- Contributor to Baseball Prospectus
- Contributor to Chance Magazine
- Contributor to DeadSpin.com
- Contributor to TeamRankings.com
- Contributor to Significance Magazine Online

Kaggle Competitions

Kaggle Competitions Expert. Top 1%. Current Rank: 1902 / 202382 (as of August

2025). Highest Rank: 773

Matthews, G. J. March Machine Learning Mania. 2025. Place: 222/1727

Matthews, G. J. March Machine Learning Mania. 2024. Place: 15/821

Matthews, G. J. March Machine Learning Mania. 2023. Place: 180/1030

Matthews, G. J. March Machine Learning Mania - Men's. 2022. Place: 917/930

Matthews, G. J. March Machine Learning Mania - Men's. 2021. Place: 302/707

Matthews, G. J. March Machine Learning Mania 2021 - NCAAM - Spread. 2021. Place: 41/96

Matthews, G. J. NFL Big Data Bowl? How many yards will an NFL player gain after receiving a handoff?. 2020. Place: 1172/2038

Matthews, G. J. and Lopez, M. Google Cloud and NCAA ML - Men's. 2019. Place: 13/862

Matthews, G. J. and Lopez, M. Google Cloud and NCAA ML - Women's. 2019. Place: 31/497

Matthews, G. J. and Lopez, M. Google Cloud and NCAA ML - Men's. 2018. Place: 221/934

Matthews, G. J. and Lopez, M. Google Cloud and NCAA ML - Women's. 2018. Place: 71/505

Matthews, G. J. and Lopez, M. March Machine Learning Mania - Men's. 2017. Place: 39/442

Matthews, G. J. and Lopez, M. March Machine Learning Mania - Men's. 2016. Place: 4/598

Matthews, G. J. and Lopez, M. March Machine Learning Mania - Men's - 2015. Place: 4/341

Matthews, G. J. TFI Restaurant Revenue Prediction. 2015. Place: 1446/2257

Matthews, G. J. Otto Group Product Classification Challenge. 2015. Place: 2710/3514

Matthews, G. J. National Data Science Bowl. 2015. Place: 542/1049

Matthews, G. J. and Lopez, M. March Machine Learning Mania. 2014 - Men's. Place: 1/248

Art

Photography

The Fine Art of Photography Plymouth, MA USA
Accepted artist for "BabyGasMask" **2012**

Exhibitions Oraganized

JSM Data Art Show Joint Statistical Meetings, Nashville, TN (August 2025).

JSM Data Art Show	Joint Statistical Meetings, Portland, OR (August 2024).
JSM Data Art Show	Joint Statistical Meetings, Washington D.C. (August 2022).
JSM Data Art Show	Joint Statistical Meetings, Online (August 2020).
JSM Data Art Show	Joint Statistical Meetings, Denver, CO (August 2019).
JSM Data Art Show	Joint Statistical Meetings, Vancouver, BC, Canada (August 2018).
JSM Data Art Show	Joint Statistical Meetings, Baltimore, MD (August 2017).
Digital World (J. Hilmes and J. Beskin)	Morpho Gallery, Chicago, IL (July 2017).
JSM Data Art Show	Joint Statistical Meetings, Chicago, IL (August 2016).
Seeking Order (S. Concannon and D. Finkel.)	Morpho Gallery, Chicago, IL (June 2015).

Solo Exhibitions

Various Works	Loyola University Chicago Library, Chicago, IL (October 2024).
Google Image Search Series	Arriva Dolce Coffee Shop, Chicago, IL (March 2020).
Uncertainty	Indian Orchard Mills Spring Show, Springfield, MA (April 2014).

Group Exhibitions

ArtPrize	The BOB, Grand Rapids, MI (September 2022).
Emerging Artists Exhibit	Morpho Gallery, Chicago, IL (January 2020).
JSM Data Art Show	Joint Statistical Meetings, Denver, CO (August 2019).
ArtPrize 10	Lantern Coffee Shop, Grand Rapids, MI (September 2018).
JSM Data Art Show	Joint Statistical Meetings, Vancouver, BC, Canada. (August 2018).
JSM Data Art Show	Joint Statistical Meetings, Baltimore, MD (August 2017).
Summer Show	Morpho Gallery, Chicago, IL (July 2017).
Emerging Artists Exhibit	Morpho Gallery, Chicago, IL (February 2017).
Columbia College Chicago	Columbia College Chicago, Chicago, IL (September 2016).
JSM Data Art Show	Joint Statistical Meetings, Chicago, IL (August 2016).
Fountain Square Arts Fest	Fountain Square, Evanston, IL (June 2016).
May Open Studio	Cornelia Arts Center, Chicago, IL (May 2016).
State of the Art	Tradition Gastro Pub , Chicago, IL (August 2015).
Art and Science	Arterie Fine Arts, Naperville, IL (August 2015).
State of the Art Chicago	Estate Ultra Bar, Chicago, IL (August 2015).
Art by America: A Review of 2-D Contemporary Art	The Art House, Chicago, IL (June 2015).
Seeking Order	Morpho Gallery, Chicago, IL (June 2015).

Geometric Art Studio 659, Whiting, IN (March 2015).
Emerging Artists Exhibit Morpho Gallery, Chicago, IL (February 2015).
Pancakes and Booze Reggies, Chicago, IL (February 2015).
Emerging Artists Exhibit Morpho Gallery, Chicago, IL (January 2015).
Snap to Grid Los Angeles Center for Digital Art (LACDA), Los Angeles, CA (December 2014).

In the Media

"Gregory J. Matthews - Chicago, Illinois." 365 Artists 365 Days. http://bit.ly/1zpgqGX

Comedy

Uncontrolled Variables - A Science and Comedy Show

Physics - Guest Lecturer and Producer **Atheneum Theater, September 2025**
Physics - Guest Lecturer and Producer **The Lincoln Lodge, September 2025**
Sports - Guest Lecturer and Producer **The Lincoln Lodge, August 2025**
Vision - Guest Lecturer and Producer **The Lincoln Lodge, July 2025**
Sex - Guest Lecturer and Producer **The Lincoln Lodge, June 2025**
Environmental Science - Guest Lecturer and Producer **The Lincoln Lodge, May 2025**
Sports - Guest Lecturer **Connecticut Sports Analytics Symposium (CSAS), Yale University, April 2025**
Birds - Guest Lecturer and Producer **The Den Theater, April 2025**
Robotics - Guest Lecturer and Producer **The Lincoln Lodge, March 2025**
Nutrition - Guest Lecturer and Producer **The Lincoln Lodge, February 2025**
Chemistry - Guest Lecturer and Producer **The Lincoln Lodge, January 2025**
Applied Mathematics - Guest Lecturer and Producer **The Lincoln Lodge, December 2024**
Political Science - Guest Lecturer and Producer **The Lincoln Lodge, November 2024**
Stem Cells - Guest Lecturer and Producer **The Lincoln Lodge, October 2024**
Memory - Guest Lecturer and Producer **Northwestern Neuroscience Department Retreat, September 2024**
Memory - Guest Lecturer and Producer **The Lincoln Lodge, September 2024**
Heat - Guest Lecturer and Producer **The Lincoln Lodge, August 2024**
Microbiome - Guest Lecturer and Producer **The Lincoln Lodge, July 2024**
LGBTQ Health - Guest Lecturer and Producer **The Lincoln Lodge, June 2024**
Geology - Guest Lecturer and Producer **The Lincoln Lodge, May 2024**
Public Health - Guest Lecturer and Producer **The Lincoln Lodge, April 2024**
Mathematics - Guest Lecturer and Producer **The Lincoln Lodge, March 2024**
Relationships - Guest Lecturer and Producer **The Lincoln Lodge, February 2024**
Computer Science - Guest Lecturer and Producer **The Lincoln Lodge, January 2024**
Bioethics - Guest Lecturer and Producer **The Lincoln Lodge, November 2023**
Environmental Science - Guest Lecturer and Producer **The Lincoln Lodge, October 2023**
Neuroscience - Guest Lecturer and Producer **Northwestern Neuroscience Department Retreat, September 2023**
Neuroscience - Guest Lecturer and Producer **The Lincoln Lodge, September 2023**
Bayesian Statistics - Guest Lecturer and Producer **The Fair Oak, Madison Comedy Festival, August 2023**
Bayesian Statistics - Guest Lecturer and Producer **The Lincoln Lodge, August 2023**
Nuclear Physics - Guest Lecturer and Producer **The Lincoln Lodge, July 2023**
Epidemiology - Guest Lecturer and Producer **The Lincoln Lodge, June 2023**

Forensic Science - Guest Lecturer and Producer **The Lincoln Lodge, May 2023**
Science of Education - Guest Lecturer and Producer **The Lincoln Lodge, April 2023**
Materials Science - Guest Lecturer and Producer **The Lincoln Lodge, March 2023**
Evolutionary Biology - Guest Lecturer and Producer **The Lincoln Lodge, February 2023**
Science of Music - Guest Lecturer and Producer **The Lincoln Lodge, January 2023**
Climate Science - Guest Lecturer and Producer **The Lincoln Lodge, December 2022**
Artificial Intelligence - Guest Lecturer and Producer **The Lincoln Lodge, November 2022**
Social Psychology - Guest Lecturer and Producer **The Lincoln Lodge, October 2022**
Applied Statistics - Scientist **The Lincoln Lodge, August 2022**
Applied Statistics - Scientist **The Lincoln Lodge, May 2021**

Stand Up

Stu News 12th Anniversary Show **Bighouse Theater, July 31, 2025**
Laser Comedy Show **My Buddy's Chicago, May 17, 2023**

Improv

Shows Produced

The Emeralds: Seven Years of Emeralds **The Den Theatre, February 4 and 11, 2023**
The Emeralds: Spring Gigglefest **The Den Theatre, April 1 and 2, 2022**
The Emeralds We Back! **The Den Theatre, October 23, 2021**
The Emeralds **Comedysportz, November 16 and 23, 2019**
Springtime for Emeralds **Under the Gun Theater, April 17, April 24, and May 1, 2019**
The Emeralds: Cold November Run **The Cornservatory, November 1, 8, and 15, 2019**

Performances

The Emeralds: Seven Year of Emeralds **The Den Theatre, February 11, 2023**
The Emeralds: Seven Year of Emeralds **The Den Theatre, February 4, 2023**
The Emeralds: Spring Gigglefest **The Den Theatre, April 2, 2022**
The Emeralds: Spring Gigglefest **The Den Theatre, April 1, 2022**
The Emeralds: We Back! **The Den Theatre, October 23, 2021**
The Emeralds **Comedysportz, November 23, 2019**
The Emeralds **Comedysportz, November 16, 2019**
One Night Only: The Emeralds **Judy's Beat Lounge,August 23, 2019**
The Emeralds **Under the Gun Theater, May 1, 2019**
The Emeralds **Under the Gun Theater, April 24, 2019**
The Emeralds **Under the Gun Theater, April 17, 2019**
The Emeralds **The Cornservatory, November 15, 2018**
The Emeralds **The Cornservatory, November 8, 2018**
The Emeralds **The Cornservatory, November 1, 2018**
One Night Only: The Emeralds **The Blackout Cabaret, September 23, 2018**
One Night Only: The Emeralds **Judy's Beat Lounge, Second City, June 29, 2018**
Nite Brunch, Do-Si-Dose of Reality **Playground Theater, June 17, 2018**
Breakfast of Champions, Do-Si-Dose of Reality **IO Theater, June 15, 2018**
Give me Five **Playground Theater, May 30, 2018**

A night of non-sense for gun sense	**Donny's Skybox, May 20, 2018**
Do-Si Dose	**Small Theater, The Annoyance, May 15, 2018**
Bring Your Own Diary, Do-Si-Dose of Reality	**The Playground Theater, February 22, 2018**
One Night Only: The Emeralds	**Donny's Skybox, February 10, 2018**
Opening Act for Uncle Bobo, Do-Si-Dose of Reality	**The Cornservatory, January 26, 2018**
The Emeralds	**Morpho Gallery, December 16, 2017**
Pillow Fight Finals, Do-Si-Dose of Reality	**Donny's Skybox, December 8, 2017**
Pillow Fight Semi-Finals, Do-Si-Dose of Reality	**Donny's Skybox, November 24, 2017**
Coached Ensemble, Do-Si-Dose of Reality	**Donny's Skybox, November 16, 2017**
Coached Ensemble, Do-Si-Dose of Reality	**Donny's Skybox, November 9, 2017**
Coached Ensemble, Do-Si-Dose of Reality	**Donny's Skybox, November 2, 2017**
Coached Ensemble, Do-Si-Dose of Reality	**Donny's Skybox, October 26, 2017**
The Emeralds with Chunky Puppies	**Morpho Gallery, June 17, 2017**
One Night Only: The Emeralds	**DeMaat Theater, Second City, April 15, 2017**
One Night Only: The Emeralds	**DeMaat Theater, Second City, March 3, 2017**
Appearance in the Bucket Show	**Uncommon Ground, Chicago, IL, March 2, 2017**
Opening act for Tubbs Avenue	**Blackout Cabaret, Second City, January 28, 2017**
Opening act for Tubbs Avenue	**Blackout Cabaret, Second City, January 21, 2017**
Opening act for Toast	**Blackout Cabaret, Second City, December 17, 2016**
Level E Show	**E.T.C. Lounge, Second City, October 22, 2016**
Coached Ensemble, Kid's Table	**Donny's Skybox, Second City, October 13, 2016**
Coached Ensemble, Kid's Table	**Donny's Skybox, Second City, October 6, 2016**
Coached Ensemble, Kid's Table	**Donny's Skybox, Second City, September 22, 2016**
Coached Ensemble, Kid's Table	**Donny's Skybox, Second City, September 29, 2016**
Level D Show	**Beat Lounge, August 14, 2016**
Jam Sandwich	**DeMaat Theater, Second City, July 21, 2016**
Level C Show	**DeMaat Theater, Second City, June 17, 2016**
Jam Sandwich	**DeMaat Theater, Second City, June 9, 2016**
Jam Sandwich	**DeMaat Theater, Second City, May 12, 2016**

Training

Second City Training Center Chicago, IL USA

Level A (Lisa Bany) - Completed	**February 2016**
Level B (John Hildreth) - Completed	**April 2016**
Level C (Sam Super) - Completed	**June 2016**
Level D (David Montgomery) - Completed	**August 2016**
Coached Ensemble (Julia DiFerdinando) - Completed	**September 2016**
Level E (Jay Steigmann) - Completed	**October 2016**
Improv F(orever) (David Montgomery) - Completed	**December 2016**
Coached Ensemble (Sam Super) - Completed	**October 2017**
Improv F(orever) (David Montgomery) - Completed	**February 2018**

Auditions

Second City Training Center Chicago, IL USA

Coached Ensembles (Accepted)	**September 30, 2017**
Coached Ensembles	**June 4, 2017**

	Coached Ensembles (Accepted)	**July 17, 2016**
	Coached Ensembles	**May 22, 2016**

Movies and Web Series	*Dear Dark Lord* - Creepy Alley Guy	**November 2017**
	Gina - Extra	**January 2017**
	In Dreams - Extra	**September 1997**

Special Skills

- Languages: Conversational Spanish, Basic Sign Language
- Instruments: Drums
- Sports: Badminton, Baseball, Basketball, Billiards, Bowling, Golf, Ice Skating, Jogging, Jump Rope, Ping Pong, Raquetball, Rollerskating, Rollerblading, Running, Soccer, Softball, Swimming, Tennis, Volleyball, Wrestling.
- Circus Skills: Juggling
- Driving Skills: Stick Shift

Wrestling

Coaching

Stafford High School — Stafford Springs, CT USA

Assistant Wrestling Coach	**2007-2011**
Team Record - 4-3 (8-4)	**2010-11**
Team Record - 6-1 (13-10)	**2009-10**
Team Record - 3-4 (6-14)	**2008-09**
Team Record - 0-5 (2-22)	**2007-08**

Competition

Worcester Polytechnic Institute — Worcester, MA USA

Wrestler (Career Record: 7-7 (.500)	**2000-03**
Varsity Wrestler	**2001-02**

Cathedral High School — Springfield, MA USA

Wrestler (Career Record: 61-36 (.629)	**1996-2000**
2X State Open Qualifier	**1998-99,1999-2000**
3X State Qualifier	**1997-98, 1998-99,1999-2000**
Sectional Finalist	**1999-2000**
Team Captain	**1998-99,1999-2000**
Longmeadow Early Bird Tournament Champion	**1998-99**
Phil Tomkiel Tournament Champion	**1998-99**
Longmeadow Early Bird Tournament Finalist	**1999-00**

Independent — Boston, MA USA

3X Bay State Games qualifier **1996-1999**
2X Bay State Games place winner **1997-98, 1998-99**