

LAST UPDATE: JUNE 12, 2026

CURRICULUM VITA

EDUCATION

- Ph.D. Statistics, University of Western Ontario, 2008
Department of Statistical and Actuarial Sciences
Advisor: Lajos Horváth and Ricardas Zitikis
Dissertation: Statistical Inference for Densities and Related Indices
- Master of Statistics, University of Utah, 2004
Department of Mathematics
Advisor: Lajos Horváth
- B.S. Physics, University of Alabama, 2001
Minor in Mathematics and Astronomy

APPOINTMENTS

- Interim Chair, Department of Statistics, The University of Akron 2026 – Present.
- Assistant Chair, Department of Statistics, The University of Akron Spring 2026.
- Associate Professor, Department of Statistics, The University of Akron 2018 – Present.
- Assistant Professor, Department of Statistics, The University of Akron 2012 – 2018.
- Visiting Assistant Professor, Department of Statistics and Probability, Michigan State University 2008 – 2012.
- Postdoctoral Fellow, Department of Statistical and Actuarial Sciences, University of Western Ontario, Summer 2008.

RESEARCH INTEREST

- General Statistical Consulting
- Machine Learning
- Actuarial Science (Risk Modeling / Reliability Modeling)
- Time Series Analysis and Forecasting (Quantitative Finance / Econometrics)

PUBLICATIONS

- Boyle, J., Ozhathil, D. K., Mimoto, N., Schneider, R., Nosanov, L. B., Savetamal, A., Bhavsar, D., Miotke, S., Wibbenmeyer, L., Galet, C., Hill, D. M., Higginson, S., Chin, T., Long, A., Lacey, A., Paine, R., Tejiram, S., Reynolds, J., Johnston, M., Baker, E. D., Hamm, H. M., Tedesco, D., Priban, K., Jeschke, M. G., & Romanowski, K. (2026). A multi-center trial exploring frailty as a predictor of in-hospital and long-term mortality among older adult burn survivors. Working paper.
- Ozhathil, D. K., Powel, C. M., Byrne, J., Mimoto, N., Sharma, S., Kahn, S. A., & Bailey, K. J. (2026). A survey of skin substitute use among burn surgeons across the country. Working paper.

- Baumann, A. N., Cottrill, E. J., Totis, F., Kraan, A., Mimoto N., Conry, K. T., & (2026) Passias, P. G. Associations between Preoperative T4-L1-Pelvic Angle Parameters and Traditional Cervicothoracic Parameters in Adult Cervical Deformity: A Retrospective Cross-Sectional Study. Working Paper.
- Brown, M. F., Cheruvu, V. K., VanGeest, J. B., Smith, T. C., Langkamp, D. L., & Mimoto, N. (2026). Influenza vaccination refusal among high-risk adolescents and young adults: a secondary analysis. To Be Submitted.
- Cerrone-Arnold, K., Mimoto, N., Saliga, L., & Fridline, M. (2026). Assessing corequisite math: Measuring success on learning outcomes. *MathAMATYC Educator*, 17(3), 51-58.
- Brown, M. F., Cheruvu, V. K., VanGeest, J. B., Smith, T. C., Langkamp, D. L., & Mimoto, N. (2025). Hopeful future expectations post-COVID-19 pandemic among youth. *Ohio Journal of Public Health*, 7(2), 1–14. <https://doi.org/10.18061/ojph.6412>
- Cheng, F., Koul, H. L., Mimoto, N., & Balakrishna, N. (2022). An analog of the Bickel-Rosenblatt test for error density in the linear regression model. In Research papers in statistical inference for time series and related models: Essays in honor of Masanobu Taniguchi.
- Stenta, A., Panzarella, C., Young, G., Clemons, C., Kreider, K., & Mimoto, N. (2017). Academic/industrial partnership designing a multi-purpose corrosion software platform. Department of Defense Allied Nations Technical Corrosion Conference Proceedings.
- Koul, H. L., Mimoto, N., & Surgailis, D. (2016). A goodness-of-fit test for marginal distribution of linear random fields with long memory. *Metrika*, 79, 165–193. <https://doi.org/10.1007/s00184-015-0550-z>
- Koul, H. L., Surgailis, D., & Mimoto, N. (2015). Minimum distance lack-of-fit tests under long memory errors. *Metrika*, 78, 119–143. <https://doi.org/10.1007/s00184-014-0492-x>
- Koul, H. L., Wang, L., & Mimoto, N. (2014). *Goodness-of-fit tests for marginal distribution of long memory error fields in spatial nonparametric regression models* [Technical report]. Michigan State University.
- McCallum, K., Zhao, J., Workman, M., Iannuzzi, M., Kappes, M., Payer, J., Clemons, C. B., Chawla, S., Kreider, K. L., Mimoto, N., & Young, G. W. (2014). Localized corrosion risk assessment using Markov analysis. *Corrosion*, 70(11), 1114–1127. <https://doi.org/10.5006/1184>
- Koul, H. L., Mimoto, N., & Surgailis, D. (2013). A goodness-of-fit test for marginal density of long memory moving average process. *Metrika*, 76, 205–224.
- Koul, H. L., & Mimoto, N. (2012). A goodness-of-fit test for GARCH innovation density. *Metrika*, 75, 127–149.
- Mimoto, N., & Zitikis, R. (2009). Czekanowski's index of overlap, its Lp-type extension, and bias reduction. *American Journal of Mathematical and Management Sciences*, 29, 229–261.
- Mimoto, N. (2008). Convergence in distribution for the sup-norm of a kernel density estimator for GARCH innovations. *Statistics & Probability Letters*, 78, 915–923.
- Mimoto, N., & Zitikis, R. (2008). The Atkinson index, the Moran statistic, and testing exponentiality. *Journal of the Japan Statistical Society*, 38, 187–205.

PRESENTATIONS

- *Frailty as a Predictor of In-Hospital and Long-Term Mortality in Elderly Burn Patients*. American Burn Association Annual Meeting, Orlando, FL, April 2026 (Presented by Rachel Schneider).
- *A Multi-Center Trial Exploring Frailty as a Predictor of In-Hospital and Long-Term Mortality Among Older Adult Burn Survivors*. Midwest Burn Conference, Madison, WI, September 2025 (Presented by Deepak Ozhatil).

- *Frailty Dataset – Preliminary Analysis. Organization and Delivery of Burn Care Committee.* American Burn Association Annual Meeting, Phoenix, AZ. April 2025 (Invited, presented by Deepak Ozhathil).
- *A Survey of Skin Substitute Use Among Burn Surgeons Across the Country.* American Burn Association Annual Meeting, Phoenix, AZ. April 2025 (Poster presentation).
- *Academic/industrial partnership designing a multi-purpose corrosion software platform.* NACE / Department of Defense – Allied Nations Technical Corrosion Conference, Birmingham, AL. August 2017 (Invited, presented by Aaron Stenta).
- *Goodness-of-Fit Tests for Long Memory Moving-Average Marginal Density.* 8th International Conference of the ERCIM WG on Computational and Methodological Statistics, Sevilla, Spain. December 2016 (Invited).
- *Risk Analysis and Management via Stochastic Corrosion Damage Modeling.* The University of Akron NCERCAMP Open House Akron, OH. July 2016 (Invited).
- *Pitting Corrosion Risk Assessment Models Using Markov Analysis.* NACE / Department of Defense – Allied Nations Technical Corrosion Conference, Pittsburg, PA. November 2015 (Invited, presented by Patrick Sullivan).
- *Pitting Corrosion Risk Assessment Models Using Markov Analysis.* NACE / Department of Defense – Allied Nations Technical Corrosion Conference, Akron, OH. July 2015 (Invited.)
- *Goodness-of-Fit Tests for Long Memory Moving-Average Marginal Density.* Joint Statistical Meeting, Montreal, Quebec, Canada. August 2013. (Invited, presented by Hira Koul.)
- *Localized Corrosion Risk Assessment of High-Strength Aluminum Alloys Using Monte Carlo and Markov Chain Analysis.* NACE Risk Management of Corrodible Systems, Washington DC. June 2013. (Invited, presented by Gerald Young).
- *Topics in Statistical Inference regarding GARCH model.* University of Akron, Department of Statistics, Akron OH. October 2012.
- *Goodness-of-fit testing for innovation density of the GARCH model.* Wayne State University, Department of Mathematics, Detroit, MI. November 2011. (Invited.)
- *Goodness-of-fit testing for innovation density of the GARCH model.* NBER-NSF Time Series Conference, East Lansing, MI. September 2011. (Invited).
- *Goodness-of-fit testing for innovation density of the GARCH model.* Northeastern Illinois University, Department of Mathematics, Chicago, IL. March 2011.
- *Goodness-of-fit testing for innovation density of the GARCH model.* Michigan State University, Department of Economics, East Lansing, MI. February 2011.
- *Estimation and goodness-of-fit testing for innovation density of the GARCH model.* Michigan State University, Department of Statistics and Probability, East Lansing, MI. October 2008.
- *Monitoring Parameter Changes in GARCH(1,1).* International Workshop in Sequential Methodologies, Auburn, AL. June 2007.
- *Testing for Exponentiality Using the Atkinson Index and Its Modification.* Probability-Statistics Days on Lorenz-Gini Type Asymptotic Methods in Statistics and their Applications, Ottawa, ON. September 2006.

GRANTS AWARDED

- Ohio Department of Higher Education Super RAPIDS Regional RFP - *Advanced Manufacturing for Industry 4.0 in Precision Finishing Technologies - Smart Manufacturing Emulation and Training Environment Resource (SMARTER) Initiative*, January 2024 – June 2025: \$537,499. (**As Co-PI.** With Farhad, S. (PI), Bahrami, H., Carpenter W., Mahajan, A.)

- Research Agreement between the University of Akron Research Foundation and Bendix Commercial Vehicle Systems LLC - *Electric Brake Performance Monitoring System Investigations using Machine Learning*, October 2021 - January 2022: \$18,516. (**As Co-PI.** With Sozer, Y. (PI))
- U.S. Air Force Academy Award #FA7000-14-2-20016 Technical Efforts to Support the Office of Corrosion Policy and Oversight - *A Collaborative Agreement Between The University of Akron and U.S. Military Academy at West Point to Develop and Verify Localized Corrosion Risk Assessment Models Using Markov Analysis*, September 2014 - September 2018: \$1,189,000. (**As Co-PI.** With Louscher, S. (PI), Castaneda-Lopez, H., Clemons, C., Dhinojwala, A., Foster, M., Gao, X., Kreider, K., Young, G.)
- Department of Defense Office of Corrosion Policy and Oversight Engineering Research and Development Center/US Army Construction Engineering Research Laboratory Grant W9132T-11-0002, and US Air Force Academy under agreement number FA7000-10-2-0013 - *FY11 Project TCC 2B - Risk Assessment of Corrodible Systems: Localized Corrosion Models*, July 2012 - December 2013: \$120,000. (**As Senior Personnel.** with Iannuzzi, M. (PI), Young, G., Clemons, C., Kreider, K.)

GRANT PROPOSALS SUBMITTED

- NSF Research Traineeship Program - *AI: Graduate Traineeship on AI Empowered Engineering Research for Emerging Applications*, September 2023. (**As Co-PI.** With Sozer, Y. (PI), Mahajan, A., Tran, N. H., Dong, Y., Ling, C.)
- NSF Research Traineeship Program - *AI: Graduate Traineeship on AI Empowered Engineering Research for Emerging Applications*, September 2021. (**As Co-PI.** With Sozer, Y. (PI), Tran, N. H., Dong, Y., Ling, C.)
- NSF EAGER - *SaTc AI-Cybersecurity: Cybersecurity Education for AIoT Applications*, February 2020. (**As Co-PI.** With Bahrami, H. (PI), Tran, N. H., Maleki, M., and Koskey, K.)
- The U.S. - Israel Center of Excellence in Energy, Engineering and Water Technology BIRD Foundation Grant - *A System to Secure the Nation's Electric Infrastructure*, September 2019. (**As Co-PI.** With Sozer, Y. (PI), Abreu-Garcia, A., Lee, K., and Tran, N. H.)
- The United States Air Force Academy (USAFA), Center for Aircraft Structural Life Extension (CASTLE) Research of Technologies Advancing Corrosion Prevention and Control - *Academic/Industrial Partnership Designing an Intelligent System of Best Practices for Corrosion Related Design, Inspection and Maintenance Issues*, July 2017. (**As Co-PI.** With Stenta, A. (PI), Clemons, C., Kreider, K., Young, G. and The Equity Engineering Group, Inc.)
- The United States Air Force Academy (USAFA), Center for Aircraft Structural Life Extension (CASTLE) Research of Technologies Advancing Corrosion Prevention and Control - *Alloy Selection for Preventing Crevice Corrosion*, July 2017. (**As Co-PI.** With Lillard, R.S. (PI), Clemons, C., Golovaty, D., Kreider, K., Young, G.)
- NSF Hydrologic Sciences - *Multivariate Stochastic Streamflow Simulation and Forecast of Cuyahoga River Watershed, OH under Change*, Dec 2012. (**As Co-PI.** With Lin Zhang (PI))

CONFERENCE ORGANIZED

- Scientific Committee Member - International Conference on Statistics: Theory and Applications 2020, Prague, Czech Republic August 2020.
- Session Chair - Math & Statistical Aspects of Inverse Problems. Inverse Problems Symposium 2012, Michigan State University, East Lansing, MI. June 2012.

COURSES TAUGHT

- 3450:221 Analytic Geometry - Calculus I
- 3470:250 Statistics for Everyday Life
- 3470:401 Probability and Statistics for Engineers
- 3470:451/551 Theoretical Statistics I

- 3470:461 Applied Statistics
- 3470:471/571 Introduction to Actuarial Science
- 3470:472/572 Actuarial Models
- 3470:477/577 Time Series Analysis
- 3470:484/584 Introduction to Machine Learning
- 3470:650 Advanced Probability and Stochastic Processes
- 3470:651 Probability and Statistics

PH.D. COMMITTEES SERVED

- 2020 Lavanya Vadmodala (Electrical and Computer Engineering)
- 2020 Sifat Morshed Chowdhury (Electrical and Computer Engineering)
- 2019 Omer Gundogmus (Electrical and Computer Engineering)
- 2019 Md Zakirul Islam (Electrical and Computer Engineering)
- 2018 Srikanth Bajaj (Civil Engineering)
- 2018 Sameer Alghanmi (Mechanical Engineering)
- 2018 Yahya Fageehi (Mechanical Engineering)
- 2018 Nibras Khalid (Civil Engineering)
- 2018 Abdulaziz Alfuhaid (Mechanical Engineering)
- 2018 Srikanth Marchetty (Civil Engineering)
- 2016 Ahmad Khasawneh (Mechanical Engineering)
- 2016 Sunil Gowda (Civil Engineering)
- 2015 Mohamed Habouh (Civil Engineering)
- 2015 Farid Arya (Civil Engineering)
- 2014 Yasser Alsanry (Civil Engineering)
- 2014 Prince Baah (Civil Engineering)

MASTER STUDENTS ADVISED

- 2026 David Palucki
- 2026 Robert Smith
- 2025 Andrew Elsfelder
- 2025 Justin Alkire
- 2025 Mandana Ashrafzadeh
- 2025 Katlyn Villers
- 2023 Leah Jennings
- 2023 Nebeyu Tedla
- 2022 Jo Ozaki
- 2021 Ariya Aghababa
- 2021 Thomas Litman
- 2021 Eric Maibach
- 2020 Jephthah Oppong-Atta
- 2020 Zak Wilson
- 2020 Maha Alsaeed
- 2020 Tyler Hushour
- 2019 Fiyhan Alsubaie
- 2019 Khetam Rahmani
- 2018 Rosy Dhakal
- 2018 Seth Agyemang
- 2018 Forson Abanquah
- 2018 Biyong Yang
- 2018 Fangfang Sun
- 2018 Edwin Asirifi
- 2018 Ismael Asamoah
- 2017 Jane Oh
- 2017 Naryan Katel
- 2017 Michael Gyamfi (Thesis, Applied Math)
- 2016 Micah Ruth
- 2016 Jawon Min

- 2016 Paul Traxler
- 2016 Faizan Khatri
- 2016 Siegfried Anyomi
- 2016 David Arens
- 2016 Alex Cowell (Thesis, Applied Math)
- 2016 Kathryn Stalker (Thesis, Applied Math)
- 2015 Chris Blandt (Applied Math)
- 2014 Jerry Dogbey-Gakpetor
- 2014 Michael Workman (Thesis, Applied Math)
- 2014 Jing Zhao (Thesis, Applied Math)
- 2013 Mahider Kitil

UNDERGRADUATE HONORS PROJECTS SPONSORED

- 2026 Carl Hughes
- 2020 Ariya Aghababa
- 2020 Joanna Riley
- 2020 Noah Hellenthal
- 2019 Jared Skinner
- 2018 Jeremy Gensel
- 2018 Kevin Schwall
- 2017 Tyler Hushour
- 2016 Matt Krznic
- 2016 Alan Agnew
- 2015 Jeff Swensen
- 2014 Kyle Kirkpatrick
- 2014 Virginia Gegeck (Applied Math)
- 2014 Qiuhe (Chelsea) Zhao
- 2014 Mark Roshak (Finance)
- 2013 AJ Pero

SERVICE AND ACTIVITIES

- Refereeing: Statistics and Probability Letters, Annals of the Institute of Statistical Mathematics, Journal of Multivariate Analysis, Journal of Indian Statistical Association, Journal of Probability and Statistics
- Member of American Statistical Association and Society of Actuaries
- Statistics Department Learning Assessment Committee, 2014-2016
- Statistics Department Graduate Admission Committee, 2014-current
- College Instructor Search Committee (Chair), 2015-2016
- Assistant Professor of Instruction Search Committee (Chair), 2018-2019
- Actuarial Program Coordinator
- RTP/Merit guideline revision committee
- Library Liaison
- Department webpage manager

AWARDS

- Best paper award, NACE/Department of Defense – Allied Nations Technical Corrosion Conference, 2015
- Fields Institute Travel Grant, 2006
- Sigma Pi Sigma, The National Physics Honor Society, 2001
- Minami Scholarship, University of Alabama, 2001