

Jackson P. Lautier

CURRICULUM VITAE

CONTACT INFORMATION

Department of Statistics
University of Connecticut
215 Glenbrook Rd. U-4120
Storrs, CT 06269-4120 USA

email: jackson.lautier@uconn.edu
linkedin: [jackson-lautier](https://www.linkedin.com/in/jackson-lautier)
website: jacksonlautier.com
phone: (860) 620-2195

EMPLOYMENT

2023*– Assistant Professor, Department of Mathematical Sciences, Bentley University, Waltham, MA, USA
*Fall 2023

EDUCATION

Current Appointment

Ph.D. / 2023* Statistics, University of Connecticut, Storrs, CT, USA
Advisors: Vladimir Pozdnyakov, Jun Yan, Sy Han (Steven) Chiou (Assoc.), and Emiliano Valdez (Assoc.)
*anticipated *Dissertation: Essays on Survival Analysis with Applications to Securitization and Consumer Finance*

Degrees

B.A. / 2011 Mathematics/Actuarial Science, University of Connecticut, Storrs, CT, USA
magna cum laude

PROFESSIONAL DESIGNATIONS

Actuarial Credentials

F.S.A. / 2015 Fellow of the Society of Actuaries
Specialization: Quantitative Finance and Investment
C.E.R.A. / 2014 Chartered Enterprise Risk Analyst
M.A.A.A. / 2013 Member of the American Academy of Actuaries

PROFESSIONAL WORK EXPERIENCE

United States Food and Drug Administration

- Oak Ridge Institute for Science and Education (ORISE) Fellow, Center for Drug Evaluation and Research (CDER)
Research topic: *Machine learning applications in biopharmaceutical research* (2021 – 2022, 2023)

Prudential Financial, Inc.

- Director, Actuary: Modeling, Variable and Fixed Annuities, *supervisor of two direct reports* (2018 – 2019)
- Quantitative Credit Research Analyst: Structured Products, PGIM Fixed Income (2016 – 2018)
- Associate Actuary: Capital & Risk Management, Individual Life Insurance (2014 – 2016)
- Senior Actuarial Associate: Guaranteed Minimum Withdrawal Benefit Pricing, Prudential Retirement (2013 – 2014)
- Senior Actuarial Associate: Pension Consulting Services, Retirement Planning Strategies (2011 – 2013)
- Actuarial Intern: Pension Consulting Services (2010 – 2011)

RECOGNITION

Awards

- **Student Poster Award**, Excellence in Statistical Science, UConn Department of Statistics 60th Anniversary Celebratory Conference, *Consumer Credit Risk Convergence: The Case for Performance-Based Interest Rate Reductions in Consumer Automobile Loans* (2022)
- **Best Performance in Probability**, Department of Statistics, University of Connecticut (2022)
- **Student Paper Award**, American Statistical Association (ASA), Risk Analysis Section, *Modeling Time-to-Event Contingent Cash Flows: A Discrete-Time Survival Analysis Approach* [\$600] (2022)
- Conference Participation Award, University of Connecticut [\$1,000] (2021)

Fellowships

- Doctoral Dissertation Fellowship, University of Connecticut, The Graduate School [\$2,000] (2023)
- **ORISE** Oak Ridge Institute for Science and Education Fellowship, U.S. Food and Drug Administration (FDA), Center for Drug Evaluation and Research (CDER) [\$20,000] (2023)
- **ORISE** Oak Ridge Institute for Science and Education Fellowship, U.S. Food and Drug Administration (FDA), Center for Drug Evaluation and Research (CDER) [\$35,600] (2021 – 2022)
- **NSF-GRFP** National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Award Recipient, Mathematical Science (Statistics) [\$138,000] (2020 – 2023)
- Statistics Fellowship, University of Connecticut, Department of Statistics [\$11,900] (2019 – 2020)

PUBLICATIONS

Peer-Reviewed Publications

- 1 **Lautier, J. P.**, Pozdnyakov, V., Yan, J. (2023). Estimating a discrete distribution subject to random left-truncation with an application to structured finance. *Econometrics and Statistics*, Accepted. [[arXiv](#)]
- 2 **Lautier, J. P.**, Pozdnyakov, V., Yan, J. (2023). Pricing time-to-event contingent cash-flows: A discrete-time survival analysis approach. *Insurance: Mathematics and Economics*, 110, 53-71. <https://doi.org/10.1016/j.insmatheco.2023.02.003> [2022 American Statistical Association Student Paper Award]
- 3 Cohen, J. P., Friedt, F. L., **Lautier, J. P.** (2022). The impact of the Coronavirus pandemic on New York City real estate: First evidence. *Journal of Regional Science*, 62, 858–888. <https://doi.org/10.1111/jors.12591>

Articles Submitted for Peer-Review

- 1 **Lautier, J. P.**, Pozdnyakov, V., Yan, J. (2023). On the maximum likelihood estimation of a discrete, finite support distribution under left-truncation and competing risks.

Working Papers

- 1 **Lautier, J. P.**, Pozdnyakov, V., Yan, J. (2022). On the convergence of credit risk in current consumer automobile loans. [[arXiv](#)] [[SSRN](#)]
- 2 **Lautier, J. P.**, Kim, J., Kim, J., Kim, H., Grosser, S. (2022). Applications of machine learning in pharmacogenomics: Clustering plasma concentration-time curves. [[arXiv](#)]

PRESENTATIONS

Keynote Speaker

- 1 *Practical Applications of Data Science for Actuaries*, Invited General Sessions, [Actuaries' Club of Hartford & Springfield, Fall Meeting](#) (2022)

Invited Talks

- 1 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Seminars, Fifth Biennial Auto Lending Conference, Federal Reserve Bank of Philadelphia (July 2023)
- 2 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Poster Presentations, 2023 Boulder Summer Conference on Consumer Financial Decision Making, University of Colorado Boulder Leeds School of Business (2023)
- 3 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Seminars, John Molson School of Business, Department of Finance, (Université) Concordia University (2023)
- 4 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Seminars, Department of Economics, University of Connecticut (2023)
- 5 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Seminars, Finance Department, School of Business, University of Connecticut (2023)
- 6 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Seminars, Department of Mathematical Sciences, Bentley University (2023)
- 7 *Modeling Time-to-Event Contingent Cash Flows: A Discrete-Time Survival Analysis Approach*, American Statistical Association, Risk Analysis Section, 2022 Student Paper Awards Invited Presentations, Joint Statistical Meetings (2022)
- 8 *Applications of Survival Analysis in Financial Risk Management: Predicting and Pricing Asset-Backed Security Cash-Flows*, Invited Seminars, [SiDOR Research Group](#) & [CINBIO](#), Universida de Vigo (2022)
- 9 *The Impact of the Coronavirus Pandemic on New York City Real-Estate: First Evidence*, COVID and Cities paper session, American Real-Estate and Urban Economics – Allied Social Sciences Associations Annual Meeting (2022)

Contributed Conference Presentations

- 1 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Topics on Financial Econometrics and Macroeconomic Modeling, Joint Statistical Meetings (August 2023)
- 2 *On the Convergence of Credit Risk in Current Consumer Automobile Loans*, Invited Student Papers Session, New England Statistical Symposium (June 2023)
- 3 *Applications of Machine Learning in Pharmacogenomics: Clustering Pharmacokinetic Concentration Curves*, Dose Finding, Dose Selection, and Early-Phase Trials paper session, Joint Statistical Meetings (2022) [*presented by co-author]
- 4 *Modeling Financial Cash Flows with Discrete-time Survival Analysis*, Invited Student Papers Session, New England Statistical Symposium (2022)
- 5 *Estimating a Discrete Distribution from Data Subject to Random Left-Truncation*, Invited Student Papers Session, New England Statistical Symposium (2021)

TEACHING EXPERIENCE

Courses Taught

- o [Actuarial Loss Models](#), University of Connecticut (2019)
- o [Actuarial Loss Models](#), University of Connecticut (2018)

Teaching Assistant

- o [Elementary Concepts of Statistics](#), University of Connecticut (2020)
- o [Elementary Concepts of Statistics](#), University of Connecticut (2019)

Instructional Workshops

- [Basketball Analytics with R Instructional Workshop, UConn Sports Analytics Symposium \[git\]](#) (2021)
- [Basketball Analytics with R Instructional Workshop, UConn Sports Analytics Symposium \[git\]](#) (2020)

PROFESSIONAL ACTIVITIES

Professional Memberships

- American Economic Association, Student Member (2022–)
- American Financial Association, Student Member (2022 –)
- Institute of Mathematical Statistics, Student Member (2022 –)
- American Real-Estate and Urban Economics Association, Student Member (2019)
- American Statistical Association, Student Member (2019 –) [Sections: Business and Economic Statistics (2019 –), Risk Analysis (2019 –), Statistics in Sports (2021 –), Biopharmaceutical (2022–), Lifetime Data Science (2022–), Social Statistics (2022–)]
- New England Statistical Society, Student Member (2019 –)
- American Academy of Actuaries (2012 –)
- Society of Actuaries (2009 –)

Referee Reports

- Lawrence D. Brown Ph.D. Student Award Peer Review (2022)

Conference Participation

- Consumer Financial Decision Making, University of Colorado Boulder Leeds School of Business, Boulder, CO (2023)
- Innovative Data in Household Finance, National Bureau of Economic Research, Cambridge, MA (2022)
- Excellence in Statistical Science, UConn Department of Statistics 60th Anniversary Celebration, Storrs, CT (2022)
- Joint Statistical Meetings, American Statistical Association, Washington, DC (2022)
- New England Statistical Symposium, New England Statistical Society, Storrs, CT (2022)
- Allied Social Sciences Associations (ASSA) Annual Meeting, American Economic Association, Virtual (2022)
- New England Statistical Symposium, New England Statistical Society, Providence, RI (2021)
- Joint Statistical Meetings, American Statistical Association, Virtual (2021)
- Annual Meeting & Exhibit, Society of Actuaries, Virtual (2020)
- Predictive Analytics Symposium, Society of Actuaries, Minneapolis, MN (2018)
- ABS East, Structured Finance, Information Management Network, Miami, FL (2017)
- ABS West, Structured Finance, Information Management Network, Las Vegas, NV (2017)
- ABS East, Structured Finance, Information Management Network, Miami, FL (2016)
- Annual Meeting & Exhibit, Society of Actuaries, Las Vegas, NV (2016)
- Investment Symposium, Society of Actuaries, Philadelphia, PA (2015)

VOLUNTEER SERVICE

- Asset Manager, Personal Charitable Investment Trust. Initial investment: \$10,000. Total Donations: \$3,776.42. Gross Return Since Inception: 53.53% (2020-2023, before donations). Net Annual Return: 5% (after donations). Assets-Under-Management (1/1/2023): \$11,576.25. *I run the fund and make all investment decisions. I am seeking to involve students in the day-to-day management.* (2020 –)
- Actuarial Bootcamp, Enterprise Risk Management Topic Presenter, University of Connecticut (2014 –)
- Exam ERM & FSA Speciality Exam Proctor, Society of Actuaries (2020)

- Breadline volunteer (weekly), St. Francis of Assisi, New York, NY (2016 – 2018)
- Introduction to the Actuarial Profession and Statistical Black Swans, West Orange High School, NJ (2016)
- Adventure Saturday program for at-risk youth, St. Patrick, St. Anthony Church, Hartford, CT (2014 – 2015)