

# Peter Adamic, B.Math., M.Sc., Ph.D., P.Stat.

## Curriculum Vitae

*Effective Dec 11, 2021*

---

### Personal

Full Name: Dr. Peter Frank Adamic

Citizenship: Canadian

### Academic Appointments

- 2021-2024 Adjunct Professor, School of Engineering and Computation, Laurentian University
- 2012-2021 Associate Professor, Department of Mathematics and Computer Science, Laurentian University  
(Note that the department of Mathematics & Computer Science closed in 2021)
- 2012 Awarded Tenure at Laurentian University
- 2007-2012 Assistant Professor, Department of Mathematics and Computer Science, Laurentian University
- 2007 Sessional Lecturer, Department of Mathematics and Statistics, University of Guelph

### Editorial Appointments

- 2015-2016 Associate Editor, Australian Journal of Actuarial Practice

### Education

- 2009 P.STAT., Professional Statistician, Statistical Society of Canada
- 2008 A.STAT., Associate Statistician, Statistical Society of Canada
- 2007 PH.D., Statistics, University of Guelph
- 2004 M.SC., Statistics, University of Guelph
- 2003 Qualified for Associate status with the Canadian Institute of Actuaries  
(Current SOA credit for all VEE, Exams P, FM, IFM, LTAM, STAM, SRM)  
(Current CAS credit for all VEE, Exams 1, 2, 3F, MAS-I, MAS-II)
- 1999 B.MATH. with Honours, Actuarial Science, University of Waterloo

### Research Areas

Survival Analysis, Actuarial Mathematics, Mathematical Demography, Nonparametric Statistics, Expectation-Maximization Algorithms

## Publications

### REFEREED JOURNAL ARTICLES

- 2021 Chen, T., Desmond, A.F., Adamic, P. (2021), "Generalized Additive Modelling of Dependent Frequency and Severity Distributions for Aggregate Claims", *Submitted*.
- 2021 Beknazaryan, A., Sang, H., Adamic, P. (2021), "On the integrated mean squared error of wavelet density estimation for linear processes", *Submitted*.
- 2021 Beknazaryan, A., Adamic, P. (2021), "On a stochastic order induced by an extension of Panjer's family of discrete distributions", *Metrika*, <https://doi.org/10.1007/s00184-021-00822-5>.
- 2020 Naik, S., Adamic, P. (2020), "Life Expectancy Improvement for Multiple Cure Distributions", *European Actuarial Journal*, 10(1), 73-90.
- 2020 Lievers, W., Goggins, K., Adamic, P. (2020), "Epidemiology of Foot Injuries using National Collegiate Athletic Association Data from the 2009-2010 through 2014-2015 Seasons", *Journal of Athletic Training*, 55(2), 181-187.
- 2019 Adamic, P., Guse, J., Dumais, C. (2019), "Nonparametric Modeling of Multiple Decrements Subject to Dependent Censoring and Masking", *Model Assisted Statistics and Applications*, 14(1), 19-29.
- 2016 Adamic, P., Guse, J. (2016), "LOESS Smoothed Density Estimates for Multivariate Survival Data Subject to Censoring and Masking", *Annals of Actuarial Science*, 10(2), 285-302.
- 2015 Adamic, P. (2015), "Life Expectancy Improvement with a Cure Distribution for a Cause of Death", *Australian Journal of Actuarial Practice*, 2015(3), 59-70.
- 2015 Lievers, W.B., Adamic, P. (2015), "Incidence and Severity of Foot and Ankle Injuries in Men's Collegiate American Football", *The Orthopaedic Journal of Sports Medicine*, 3(5).
- 2014 Adamic, P., Caron, S. (2014), "SC-CR Algorithms with Informative Masking", *Scandinavian Actuarial Journal*, 2014(4), 339-351.
- 2010 Adamic, P., Dixon, S., Gillis, D. (2010), "Multiple Decrement Modeling in the Presence of Interval Censoring and Masking", *Scandinavian Actuarial Journal*, 2010(4), 312-327.
- 2010 Adamic, P. (2010), "Modeling Multiple Risks in the Presence of Double Censoring", *Scandinavian Actuarial Journal*, 2010(1), 68-81.
- 2010 Killam, L.A., Montgomery, P., Luhanga, F.L., Adamic, P., Carter, L.M. (2010), "Views on Unsafe Nursing Students in Clinical Learning", *International Journal of Nursing Education Scholarship*, (7)1, Article 36.
- 2009 Adamic, P., Ouadah, S. (2009), "A Kernel Method for Modeling Interval Censored Competing Risks", *South African Statistical Journal*, 43(1), 1-20.
- 2009 Adamic, P., Babiy, V., Janicki, R., Kakiashvili, T., Koczkodaj, W., Tadeusiewicz, R. (2009), "Pairwise Comparisons and Visual Perceptions of Equal Area Polygons", *Perceptual & Motor Skills*, 108, 37-42.
- 2008 Adamic, P. (2008), "Cause-Deleted Life Expectancy Improvement for Left and Right Censored Data", *Belgian Actuarial Bulletin*, 8(1), 17-21.

### REFEREED CONFERENCE CONTRIBUTIONS

- 2021 Adamic, P., Yartey, E. (2021), "The (a,b,r) Class of Distributions". *Contributed paper presented at the 2021 (Virtual) Annual Meeting of the Statistical Society of Canada*.
- 2019 Naik, S., Adamic, P. (2019), "Stochastic Cause-Deleted Life Expectancy for Multiple Risks". *Contributed paper presented at the 2019 Annual Meeting of the Statistical Society of Canada, University of Calgary*.
- 2018 Adamic, P. (2018), "Dependent Modeling of Competing Risks Using Kernel Regression". *Contributed paper presented at the 2018 Annual Meeting of the Statistical Society of Canada, McGill University*.

- 2016 Adamic, P., Guse J. (2016), "LOESS Density Estimation for Multivariate Survival Data Subject to Censoring and Masking". *Contributed paper presented at the 2016 Annual Meeting of the Statistical Society of Canada, Brock University.*
- 2014 Adamic, P. (2014), "Cause-Deleted Life Expectancy Improvement with a Cure Distribution". *Contributed paper presented at the 2014 Annual Meeting of the Statistical Society of Canada, University of Toronto.*
- 2012 Adamic, P. (2012), "A Model for Time-Dependent Competing Risks". *Contributed paper presented at the 2012 Annual Meeting of the Statistical Society of Canada, University of Guelph.*
- 2008 Adamic, P. (2008), "The Pedagogical Importance of Statistical Simulation Methods". *Abstract published in the Official Program of the Canadian Mathematical Society's Winter 2008 General Meeting, Carleton University.*

#### PUBLISHED R PACKAGES

- 2020 Adamic, P., Wolny-Dominiak, A. (2020). *cdlei: Cause-Deleted Life Expectancy Improvement Procedure*. R package version 1.0.
- 2019 Adamic, P., Wolny-Dominiak, A. (2019). *sccr: The Self-Consistent, Competing Risks (SC-CR) Algorithms*. R package version 2.0.

#### TEXTBOOKS AND MANUALS

- 2013 Adamic, P. (2013), *Elementary Statistics for Scientists*, Sudbury: StatNorth (ISBN: 978-0-9879840-1-2).
- 2013 Adamic, P. (2013), *Solutions Manual to Accompany Elementary Statistics for Scientists*, Sudbury: StatNorth (ISBN: 978-0-9879840-2-9).
- 2011 Shrestha, A., Adamic, P., Gillis, D., Caron, S. (2011), *Student Solutions Manual for use with Introduction to Probability and Statistics (2nd Canadian ed.) by Mendenhall, W., Beaver, R., Beaver, B., Ahmed, S.*, Scarborough: Nelson (ISBN: 978-0-1764730-8-2).
- 2008 Yaha Sian, A., Adamic, P. (2008), *An Introduction to Statistical Analysis using S-Plus*, lab manual for STAT2246, Laurentian University.
- 2005 Adamic, P. (2005), *Multivariate Analysis in S-Plus*, manual for STAT4350: Multivariate Analysis, University of Guelph.

#### Grants & Awards

- 2017-2022 "Actuarial Modeling of Competing Risks Under Various Dependence Structures". Funded by a *Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant* (\$70,000.00).
- 2010-2017 "Multiple Decrement Modeling in Various Censoring and Masking Contexts". Funded by a *Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant* (\$60,000.00).
- 2008-2009 "Examining Breastfeeding Duration in Relation to the Timeliness of Support Measures: A Statistical Analysis", with the Healthy Babies Healthy Children Team of the Sudbury District Health Unit (SDHU). Funding was conditionally granted under a *Louise Picard Research Grant* (\$5,000.00), but then the project stopped prematurely due to my main research partner leaving employment at the SDHU.
- 2008-2009 "Visual Perceptions of Two-Dimensional Areas", with Dr. Waldemar Koczkodaj and Volodymyr Babiy. Funded in part by a Laurentian University *New Faculty Start-Up Grant* (\$5,500.00).
- 2008 "Simulation Studies for Various Competing-Risks Models", with Sarah Ouadah, Master's Student from Pierre and Marie Curie University - Paris VI, France. Funded by a *Laurentian University Research Fund (LURF) Grant* (\$3,750.00).

- 2006 Graduate Scholarship, University of Guelph (\$2,000.00).  
 2006 Ontario Graduate Scholarship in Science and Technology, (\$5,000.00).  
 2005 Graduate Scholarship, University of Guelph (\$2,000.00).  
 2005 Graduate Scholarship, University of Guelph (\$2,000.00).  
 2004 Graduate Scholarship, University of Guelph (\$2,000.00).

### Other Presentations

- 2021 “Cure Distributions for Survival Modeling with Application to COVID 19” (online seminar), Carleton University  
 2021 “Cure Distributions for Survival Modeling with Application to COVID 19” (online seminar), Laurentian University  
 2018 “Life Expectancy: What can we expect?” (seminar), Laurentian University  
 2018 “Modeling Failure Times with the Weibull and Log-Logistic Distributions” (seminar), Laurentian University  
 2016 “Employing the Lexis Diagram and the Grace-Nesbitt Procedure in the context of Stationary Population Theory” (seminar), Laurentian University  
 2014 “A Cause-Specific Mixed Hazard Model for Emerging Cure Probabilities” (colloquium), Western University  
 2013 “Life Expectancy Improvement with a Pre-Specified Cure Distribution” (seminar), University of Waterloo  
 2013 “Actuarial Modeling of Life Expectancy” (seminar), Carleton University  
 2012 “On Some Recent Research in Survival Analysis” (seminar), Algoma University  
 2012 “Modeling Failure Times with the Weibull and Log-Logistic Distributions” (seminar), Nipissing University  
 2012 “A Deterministic Model for Pricing Life Insurance” (seminar), Laurentian University  
 2012 “On the Significance of the World’s Population Reaching 7 Billion” (television interview with Ben Mercer), CTV News for Northern Ontario  
 2010 “Parametric Modeling of Time-to-Event Data” (seminar), Laurentian University  
 2008 “Nonparametric Competing-Risks Modeling” (colloquium), York University  
 2007 “Self-Consistent Methods for Modeling Competing-Risks in the Presence of Masking and Censoring” (seminar), Laurentian University

### Teaching\*

- 2019-2021 MATH4606, Statistical Models in Actuarial Science, Laurentian University  
 2014-2019 MATH1056, Discrete Mathematics, Laurentian University  
 2010 CPSC5206, Topics in Mathematics, Laurentian University  
 2010-2012 MATH3236, Probability and Statistics, Laurentian University  
 2010-2018 MATH3237, Regression Analysis, Laurentian University  
 2009-2010 MATH4247, Time Series Analysis, Laurentian University  
 2008-2020 MATH4237, Topics in Statistics II: Mathematics of Demography, Laurentian University  
 2008-2015 MATH4216, Applied Probability, Laurentian University  
 2008-2019 MATH3206, Introduction to Actuarial Mathematics, Laurentian University  
 2008-2021 STAT2246, Statistics for Science, Laurentian University  
 2008-2021 MATH4706, Directed Studies II, Laurentian University  
 2008 MATH3706, Directed Studies I, Laurentian University

- 2007 STAT4360, Applied Time Series Analysis, University of Guelph  
 \* Courses not necessarily taught every year

### Post-Graduate Student Supervision

- 2021-2022 Krina Naik, Master's in Computational Sciences (Committee Member)  
 2021 Poonam Ahir, Master's in Computational Sciences (Committee Member)  
 2021 Hetang Patel, Master's in Computational Sciences (Committee Member)  
 2020 Vaishali Gadhiya, Master's in Computational Sciences (Committee Member)  
 2019-2020 Esther Yartey, Master's in Computational Sciences (Primary Supervisor)  
 2020 Nakul Patel, Master's in Computational Sciences (Committee Member)  
 2019-2020 Dr. Aleksandr Beknazaryan, Postdoctoral Fellow (Primary Supervisor)  
 2019 Hardik Ghaveriya, Master's in Computational Sciences (Committee Member)  
 2019 Parth Patel, Master's in Computational Sciences (Committee Member)  
 2017-2019 Cedric Dumais, Master's in Computational Sciences (Primary Supervisor)  
 2017 Jenna Guse, (Supervisor for Fall Research Assistantship)  
 2017 Graham Gauthier, (Supervisor for Summer Internship)  
 2016-2017 Dr. Shanoja Naik, Postdoctoral Fellow (Primary Supervisor)  
 2015-2017 Jillian Santala, Master's in Computational Sciences (Primary Supervisor)  
 2013-2014 Tatiana Khapaeva, Master's in Computational Sciences (Primary Supervisor)  
 2011 Preetpal Singh, Master's in Computational Sciences (Committee Member)  
 2010-2013 Sylvain Caron, Master's in Computational Sciences (Primary Supervisor)  
 2009 Laura Killam, Master's in Nursing (Committee Member)  
 2008 Sarah Ouadah, Master's Student (M1: Probability & Statistics) from Pierre and Marie Curie University - Paris VI, France (Supervisor for Summer Internship)

### PHD THESES REFEREED

- 2021 Takouda, E, "Topics in a Delay Renewal Risk Model Perturbed by Diffusion Process with Dependence Between Claim Sizes and Inter-Occurrence Times" (Doctoral Thesis), University of Johannesburg  
 2021 Essiomle, K, "Ruin Probabilities and Related Quantities in the Renewal Risk Model with Dependence and Time Delay in Claims Settlement" (Doctoral Thesis), University of Johannesburg

### Service to the Statistical and Actuarial Disciplines

- 2008-pres Accepted offers to serve as a referee for the following journals: *Lifetime Data Analysis*, *Journal of Statistical Computation and Simulation*, *Perceptual and Motor Skills*, *Journal of Applied Statistics*, *Model Assisted Statistics and Applications*, *Risks*, *Entropy*  
 2015-2016 Associate Editor of the Australian Journal of Actuarial Practice  
 2014-2016 Served for two years on the *Accreditation Appeals Committee* of the Statistical Society of Canada  
 2011 Served as an *NSERC Discovery Grant* referee  
 2010-2012 Served for two years on the *Accreditation Committee* of the Statistical Society of Canada

### Related Industry Employment

- 2021-pres Senior Actuarial Consultant, AON: Insurance Advisory Organization, Canada  
 2000-2001 Actuarial Analyst, Royal & SunAlliance Financial: Life Actuarial Department, Oakville, Ontario

- 1998-1999 Actuarial Student (8 months, Co-operative Program), Canada Life Assurance: Group Finance Department, Toronto, Ontario
- 1997-1998 Actuarial Student (8 months, Co-operative Program), Manulife Financial: Life Marketing & Group Benefits Departments, Waterloo, Ontario
- 1995-1996 Pension Analyst/Information & Communications Assistant (8 months, Co-operative Program), OPSEU Pension Trust, Toronto, Ontario