

Curriculum Vitae for Vincenzo Coia

February 27, 2017

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1 Education

PhD in Statistics

2012/09 – 2017/02

The University of British Columbia

To be conferred May 29, 2017

MSc in Mathematics and Statistics (Statistics)

2011/09 – 2012/08

Brock University

Conferred on October 13, 2012

BSc (3-year) in Biological Sciences

Minor in Earth Sciences

2005/09 – 2011/04

Brock University

Conferred “With Distinction” on October 22, 2011

BSc (Honours) Mathematics Integrated with Computers and Applications

Concentration in Statistics

2005/09 – 2011/04

Brock University

Conferred “With First-Class Standing” on June 7, 2011

2 Publications and Talks

Articles Submitted to Refereed Journals

- Huang, M.L., Coia, V., and Brill, P.H. (2013) A cluster truncated Pareto distribution and its applications. ISRN Probability and Statistics 2013: Article ID 265373.
- Ayad, M., Coia, V., and Kihel, O. (2014) The number of relatively prime subsets of a finite union of sets of consecutive integers. Journal of Integer Sequences 17: Article 14.3.7
- Coia, V., and Huang, M.L. (2014) A sieve model for extreme values. Journal of Statistical Computation and Simulation. 84(8):1692–1710.

Articles Submitted to Conference Proceedings

- Huang, M. L., Coia, V., and Brill, P.H., A mixture truncated Pareto distribution, In JSM Proceedings 2012, Statistical Computing Section, Alexandria, VA: American Statistical Association, pp. 2488–2498.

Conference and Roundtable Contributions

- Coia, V., Nolde, N., and Joe, H. “Forecasting Extremes for Flooding” (Invited Talk). The 44th Annual Meeting of the Statistical Society of Canada. May 29–June 1, 2016 at Brock University, St. Catharines, ON.
- Coia, V., and Jeanniard du Dot, T. (Invited Demonstration) “Using the Grammar of Graphics and Interactivity to explore Biologging Data in R”. May 6, 2015. Building a Bioanalytical Theory for Analysis of Marine Mammal Movements: A Peter Wall International Research Roundtable. The University of British Columbia, Vancouver, BC.
- Coia, V. “Flood Warning: An Application of High-Quantile Regression” (Contributed Talk). SFU/UBC Joint Graduate Student Seminar (Winter). February 28, 2015 at the SFU Harbour Centre, Vancouver, BC.
- Coia, V. “A New Sieve Model for Extreme Values” (Contributed Talk). SFU/UBC Joint Graduate Student Seminar (Fall). September 29, 2012 at the SFU Harbour Centre, Vancouver, BC.
- Coia, V., and Huang, M.L. “On Estimation of Heavy Tailed Distributions” (Contributed Talk). The 40th Annual Meeting of the Statistical Society of Canada. June 3–6, 2012 at the University of Guelph, Guelph, ON.
- Huang, M.L., Coia, V., and Brill, P.H. “A Mixture Truncated Pareto Distribution” (Contributed Talk). The 2012 Joint Statistical Meetings. July 28–August 2, 2012 at San Diego, California

Panels

- Invited panelist for “Opening the Door” at TELUS World of Science, Vancouver, BC. February 7, 2017.

Seminars

- Workshop on Non-stationary Extreme Value Modelling, with Natalia Nolde at BGC Engineering Vancouver. January 9, 2014.
- Seminar on the “Getting Things Done” model. UBC Graduate Student Seminar Series. October 31, 2013.

Theses

- Coia, V. (2012) On Estimation of Extreme Value Distributions. MSc Project. Supervisor: Dr. Mei Ling Huang, Brock University.

3 Awards

University Issued

The University of British Columbia

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|-------------------|-----------------------------------|
| 2012/09 – 2016/08 | Four-Year Fellowship |
| 2012/09 – 2016/08 | Faculty of Science Graduate Award |

Brock University

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| 2011/09 | Dean of Graduate Studies Excellence Scholarship |
| 2011/06/07 | Dean’s Gold Medal |
| 2011/06/07 | Distinguished Undergraduate Student Award in Mathematics |
| 2011/03 | President’s Surgite Award |

Nationally Recognized

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|-------------------|---|
| 2013/06 | Governor General of Canada's Gold Medal |
| 2012/09 – 2015/08 | NSERC Postgraduate Award (Doctoral, 3-year) |
| 2011/09 – 2012/08 | NSERC Alexander Graham Bell Canada Graduate Scholarship (Masters) |
| 2010/05 – 2010/08 | NSERC Undergraduate Student Research Award |

Individual Donors

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| 2012/04 | Dr. Jack Lightstone & Dorothy Markiewicz Scholarship |
| 2012/04 | Dr. Raymond & Mrs. Sachi Moriyama Grad. Fellowship |
| 2012/03 | Tomlinson Entrance Scholarship for Excellence in Mathematics and Science |
| 2011/06 | John and Roslyn Reed Book Prize |
| 2010/09 | Art Bicknell Scholarship in Mathematics |
| 2010/09 | Ian D. Beddis Family Scholarship |
| 2010/09 | Terry and Sue White Mathematics and Science Scholarship |
| 2007/09 | M.J. ("Mel") Farquharson Scholarship |
| 2006/09 | Scholler Foundation Scholarship in Chemistry |

Athletic Awards

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| 2016/04/03 | Sportsmanship Award, UBC Thunderbirds Sport Clubs (Fencing) |
| 2016/02/28 | Bronze Medal in Senior Mixed Épée (Intercollegiate Tournament, UBC) |
| 2015/11/16 | Bronze Medal in Senior Mixed Épée (Remembrance Day Tournament, UBC) |
| 2012/03/28 | RM Davis Surgite Award |
| 2009/12/12 | First Place Award – Winter Epeedemic, Toronto Fencing Club |
| 2009/03 | Varsity Fencing Rookie of the Year Award |

Declined Awards

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| 2012/04 | Ontario Graduate Scholarship (Doctoral) |
| 2011/05 | Ontario Graduate Scholarship (Masters) |

4 Work Experience

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| 2017/01 – present | Postdoctoral Teaching and Learning Fellow Masters of Data Science Program, the University of British Columbia Vancouver, BC |
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Statistical Consulting

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| 2013/05 – 2014/05 | Short-Term Consulting Service; SOS Consulting Service The University of British Columbia Vancouver, BC <i># Completed Projects: 3</i> <i>Subject areas: Geotechnical Engineering, Computational Engineering, Conservation Biology</i> |
| 2009/12 – present | Private Consulting <i># Completed Projects: 3</i> <i>Subject areas: Nursing, Ecology, Hydrology</i> |

Research Assistant

- 2013/05 – 2013/08 **Robust penalized regression**
Supervisor: Dr. Gabriela Cohen-Freue
Department of Statistics
The University of British Columbia
Vancouver, BC
- 2012/05 – 2012/08 **Extreme value modelling**
2011/05 – 2011/08 Supervisor: Dr. Mei Ling Huang
2010/05 – 2010/08 Department of Mathematics
Brock University
St. Catharines, ON
- 2010/09 – 2011/06 **Quantum Monte Carlo**
Supervisors: Dr. Stuart Rothstein; Dr. Wai Kong (John) Yuen
Department of Chemistry and Department of Mathematics
Brock University
St. Catharines, ON

Teaching Assistant

The University of British Columbia

- 2016/09 – 2016/12 **SCIE 300:** Communicating Science
2014/09 – 2014/12
2014/01 – 2014/04
2013/09 – 2013/12
2012/09 – 2012/12

Brock University

- 2012/01 – 2012/04 **MATH 4P82/5P82:** Non-parametric Statistics
2012/01 – 2012/04 **MATH 3P82:** Regression Analysis
2011/09 – 2011/12 **MATH 4P81/5P81:** Sampling Theory
2011/09 – 2011/12 **MATH 3P81:** Experimental Design
2011/09 – 2012/09 **MATH 2F40:** Mathematics Integrated w/ Computers and Applications II
2010/01 – 2010/04

Other

- 2002/06 – 2011/09 **Seafood Service Clerk**
Zehrs Markets
Niagara Falls, ON

5 Volunteer Positions

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| 2016/09 – 2016/02 | Science World at TELUS World of Science Zoom into Nano exhibit; Quantum: the exhibition Vancouver, BC 78.15 hours |
| 2013/10 – 2014/05 | Beaty Biodiversity Museum: Events Volunteer Vancouver, BC 35.0 hours |
| 2013/04 – 2013/09 | UBC Farm Vancouver, BC 102.5 hours |
| 2011/06 – 2011/08 | Project S.H.A.R.E. community garden Niagara Falls, ON 15.0 hours |

6 Professional Activities

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| 2016/05 – 2016/06 | Search committee member (for CRC 2 faculty position) Dept. of Statistics, The University of British Columbia |
| 2015/04/30 | Organizer of the “How to Write an Awesome Abstract” workshop Dept. of Statistics, The University of British Columbia |
| 2014/06 – 2015/05 | Organizer of the SFU/UBC Joint Seminar Dept. of Statistics, The University of British Columbia |
| 2014/06 – 2014/09 | Organizer of the Graduate Student Trip Dept. of Statistics, The University of British Columbia |
| 2014/04 – 2015/05 | Co-founder of the Graduate Writing Forums Dept. of Statistics, The University of British Columbia |
| 2013/06 – 2014/05 | Statistics Graduate Student Representative Dept. of Statistics, The University of British Columbia |
| 2010/05 – 2011/04 | Roots of Unity Mathematics Club Vice President Dept. of Mathematics, Brock University |
| 2007/09 – 2012/03 | Varsity Fencing Épée Team Brock University |

7 Professional Development

2013/05

Visualization of Climate Data, Five-day Workshop

Institute for Mathematical Sciences Applied to Geosciences

National Center for Atmospheric Research, Boulder, CO

2007/05 – 2012/08

Foundations in Leadership Practicum Series

Bronze (communication), Silver (problem solving), and Gold (teamwork) levels

Brock University