

# Vincenzo Coia

<https://vincenzocoia.wordpress.com/>

Last Updated: September 26, 2016

## 1 Education

### **Current Program: PhD in Statistics**

2012/09 – Present

The University of British Columbia

### **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

### 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*

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

*Brock University*

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

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

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

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

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

## 4 Work Experience

### Statistical Consulting

2013/05 – 2014/05	<b>Short-Term Consulting Service; SOS Consulting Service</b> 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	<b>Private Consulting</b> <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

2016/09 – 2016/12	<b>Science World at TELUS World of Science (Zoom into Nano exhibit)</b> Vancouver, BC (ongoing)
2013/10 – 2014/05	<b>Beaty Biodiversity Museum: Events Volunteer</b> Vancouver, BC 35.0 hours
2013/04 – 2013/09	<b>UBC Farm</b> Vancouver, BC 102.5 hours
2011/06 – 2011/08	<b>Project S.H.A.R.E. community garden</b> Niagara Falls, ON 15.0 hours

## 6 Professional Activities

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

## 7 Professional Development

2013/05	<b>Visualization of Climate Data, Five-day Workshop</b> Institute for Mathematical Sciences Applied to Geosciences National Center for Atmospheric Research, Boulder, CO
2007/05 – 2012/08	<b>Foundations in Leadership Practicum Series</b> Bronze (communication), Silver (problem solving), and Gold (teamwork) levels Brock University