SABRINA SIXTA

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EDUCATION

September 2019 - Present University of Toronto PhD in Statistical Sciences - Supervised by Jeffrey Rosenthal CGPA: 3.9/4.0 I am interested in the effect of dimension on Markov chain convergence rates and the one-shot coupling technique. University of Ottawa September 2010 - April 2015 Joint Honours BSc in Financial Mathematics and Economics CGPA: 10.0/10.0 Notable awards: Valedictorian for the Faculty of Science, Faculty Plaque in Mathematics and Statistics M.I.N.D. High School Graduated June 2010 High School Diploma CGPA: 94% Notable awards: Valedictorian, Bronze Governor General's Academic Medal

PAPERS

- · S. Sixta, "The Solipsist's First Paper," a poem accepted in Journal of Humanistic Mathematics (2022).
- S. Sixta, J. S. Rosenthal. "Convergence rate bounds for iterative random functions using one-shot coupling," (2021) arXiv:2112.03982.
- · M. Evans, M. Liu, M. Moon, **S. Sixta**, S. Wei, S. Yang. "On Some Problems of Confidence Region Construction," (2021) *arXiv:2109.05332*.

TALKS

· Convergence Rate Bounds for Markov Chains Using One-Shot Coupling	
Statistical Society of Canada Annual meeting, SGSU Research Day	2022
\cdot A Convergence Rate Theorem for Random Autoregressive Processes and Extensions to a H	High Dimensional
Example	
Canadian Statistics Student Conference	2021
\cdot Random Functional Autoregressive Processes: a 2021 Convergence Rate Oddyssey	
Stellar Stats Workshop	2021
AWARDS AND HONOURS	
NSERC Canada Graduate Scholarships-Doctoral	2023-2026
Ontario Graduate Scholarship	2021-2022
General Motors Women in Science and Mathematics Award	2021
Department of Statistical Sciences Student Leadership Award	2021

NSERC Canadian Graduate Scholarship - Masters

EMPLOYMENT

April 2019 - August 2019

2020-2021

 $\cdot\,$ Reviewed and sourced errors in the risk factor calculator as part of the Adaptiv Analytics upgrade.

CEM Benchmarking

Product Solutions Analyst

June 2015 - December 2016

 \cdot Developed in C# the core pension administration calculation engine that took raw data and returned calculated values for use in the report.

Bank of Montreal

Model Risk Specialist

 \cdot Validated regulatory and derivative pricing models in counterparty credit risk to ensure that they were mathematically sound and conformed to regulations.

COMMUNITY

University of Toronto Statistics Graduate Student Union President

- $\cdot\,$ First female president since at least 2001.
- \cdot Organized the 10th annual Statistics Graduate Student Research Day, which included four presentations by international speakers and eight presentations by students.
- $\cdot\,$ Organized a weekly seminar that included student talks and professional and personal development workshops.
- \cdot Launched a pilot peer mentorship program, which connected students during the lockdown.

July 2020 - July 2021