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Ms. Abigail McGrory

Correspondence language: English

Date of Birth: 10/05

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

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Ms. Abigail McGrory

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	

Degrees

2024/9	Doctorate, Biostatistics, University of Toronto Degree Status: In Progress
2022/9 - 2024/9	Master's Thesis, Science, Biostatistics, University of Toronto Degree Status: Completed
2016/9 - 2021/4	Bachelor's, Science, Actuarial Science, University of Western Ontario Degree Status: Completed

Credentials

2019/11	Exam P: Probability, Society of Actuaries
2018/8	Exam FM: Financial Mathematics, Society of Actuaries

Recognitions

2024/10 - 2025/10	CANTRAIN Doctoral Studentship - 17,500 (Canadian dollar) CANTRAIN Prize / Award
2023/10 - 2024/9	CAN-TAP-TALENT Master's Studentship Award - 8,750 (Canadian dollar) CAN-TAP-TALENT Prize / Award
2023/9	APT Scientific Meeting Scholarship - 500 (Canadian dollar) CanTreatCOVID APT Scientific Meeting Prize / Award
2023/9	Best Trainee Presentation - 100 (Canadian dollar) CanTreatCOVID APT Scientific Meeting Prize / Award
2023/5	The Paul Corey Research Poster Award - 100 (Canadian dollar) University of Toronto Prize / Award Third Prize for Best Poster Presentation - SORA-TABA Annual Workshop & DLSPH Biostatistics Research Day

2020/4 JA Southwest Ontario Advisor of the Year
Junior Achievement
Honor

User Profile

Researcher Status: Master's Student
Engaged in Clinical Research?: Yes

Research Interests: Adaptive Clinical Trial Design, Bayesian Statistics, Statistical Computing and Simulation

Employment

2023/5 - 2025/2	<p>Clinical Research Project Assistant The Hospital for Sick Children Collaborated with clinicians to establish optimal thresholds and design standards for upcoming adaptive clinical trial. Simulated clinical trials in R to establish sample size feasibility. Currently formulating a prior elicitation process for clinical trials that use Bayesian dynamic borrowing.</p>
2023/9 - 2024/12	<p>Teaching Assistant University of Toronto Assisting with teaching duties for STA130: Introduction to Statistical Reasoning and Data Science and STA237: Probability, Statistics and Data Analysis. Leading weekly tutorials and office hours as well as marking assignments and exams.</p>
2023/12 - 2024/8	<p>Research Assistant Sunnybrook Research Institute Assisted with the design and implementation of a Bayesian adaptive platform trial on bloodstream infections. Guided the use of Bayesian methodology and developed the statistical analysis plan. Implemented simulations in R to calculate a feasible minimal clinically important difference and the sample size needed to obtain reasonable power.</p>
2022/10 - 2023/4	<p>Research Student Institute for Work and Health Used statistical methods such as survival analysis and multiple imputation to reduce BMI reporting bias found in national population surveys. Presented research to scientists at the Institute for Work and Health to highlight the importance of accurate survey data.</p>
2021/9 - 2022/8	<p>SAS Programmer Alimentiv Inc. Collaborated with Data Management team to process patient data from endoscopy, histopathology, and laboratory sources. Performed exploratory data analysis, integration, and quality assurance to ensure integrity and accuracy of data before sending to trial sponsors and internal teams. Generated SDTM/ADaM datasets in SAS to provide data analysis support for Statisticians. Developed various SAS programs to calculate drug efficacy and patient response at critical endpoints.</p>
2021/5 - 2021/8	<p>Statistician, Intern Alimentiv Inc. Formulated biostatistical methods to support clinical trials and data management, including statistical planning and reporting throughout the project life cycle. Provided statistical support to project teams, quality control, and external stakeholders</p>

2019/5 - 2020/8	<p>Data Analyst, Intern Celestica</p> <p>Conducted global spend analysis and categorized key areas for improvement, reducing overall expenditure. Collaboratively worked with teams from over 20 global sites, to maintain data integrity and report global procurement savings. Created and presented performance metrics to senior management on a monthly basis. Trained incoming replacement interns remotely</p>
2018/5 - 2018/8	<p>Business Intelligence Analyst HUB International Limited</p> <p>Assisted with the migration of company data from Enterprise Guide environment to SAS Viya environment as part of a software upgrade. Modified reporting code, set up user security, and rebuilt statistical and analytical tools reporting in the new environment using SAS.</p>

Courses Taught

Lecturer, Institute of Health Policy, Management and Evaluation, University of Toronto
 Course Title: Applied Bayesian Methods in Clinical Epidemiology and Health Care Research
 Course Code: HAD5314H
 Course Topic: Introduction to Bayesian Clinical Trials
 Course Level: Graduate
 Academic Session: Summer
 Guest Lecture?: Yes

Mentoring Activities

2024/10 - 2025/9	Mentor, Public Health Student Association, University of Toronto
2019/9 - 2020/4	<p>Advisor, Junior Achievement</p> <p>Number of Mentorees: 20</p> <p>Led weekly instructional sessions, teaching high school students about financial literacy, entrepreneurship, professional workplace behavior. Mentored graduating students on university selection and career path decisions. Awarded Advisor of the Year 2020</p>
2018/9 - 2019/4	<p>Student Mentor, Actuarial and Statistical Undergraduate Association</p> <p>Number of Mentorees: 4</p> <p>Tutored first and second year students in mathematical statistics and probability courses. Provided guidance, encouragement, and role modelling to help students achieve their academic goals</p>

Community and Volunteer Activities

2024/9 - 2025/9	<p>Executive Committee Member, Canadian Statistics Student Conference</p> <p>Ensuring the success of the Thirteenth Annual Canadian Statistics Student Conference (CSCS) by establishing appropriate sponsorship as part of the fundraising committee.</p>
2023/9 - 2025/9	<p>Executive Committee Member, Biostatistics Union of Graduate Students</p> <p>In charge of organizing social events for students and staff in the Biostatistics department by sourcing locations and vendors, facilitating notification of the event to the department, and managing the event to ensure its success</p>

2017/5 - 2017/5 Volunteer, Habitat for Humanity
 Participated in a 12-day volunteer trip, collaborating with a team of 10 members to build a house for a local family

Presentations

1. (2024). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. 2024 National Clinical Trials Summit, Montreal, Canada
 Main Audience: Researcher
 Description / Contribution Value: Poster presentation
2. (2024). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. Canadian Bayesian Adaptive Trials Network, Canada
 Main Audience: Researcher
 Invited?: Yes
 Description / Contribution Value: Oral presentation
3. (2024). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. Statistical Society of Canada Annual Meeting, St. John's, Canada
 Main Audience: Researcher
 Description / Contribution Value: Oral presentation
4. Yanara Marks, Jessie cunningham, Arlene Jiang, Linke Li, Yi-Shu Lin, Nam-Anh Tran, Anna Heath. (2024). Sample Size Determination in Bayesian Randomized Clinical Trials: A Systematic Review. Society for Clinical Trials Annual Meeting, Boston, United States of America
 Main Audience: Researcher
 Description / Contribution Value: Poster presentation
5. (2024). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. Society for Clinical Trials Annual Meeting, Boston, United States of America
 Main Audience: Researcher
 Description / Contribution Value: Oral presentation
6. (2023). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. SickKids Research Institute Retreat, Toronto, Canada
 Main Audience: Researcher
 Description / Contribution Value: Poster Presentation
7. (2023). Using Imputed Clinically Measured Body Mass Index to Study Association Between Obesity and Mortality. SORA-TABA Annual Workshop & Biostatistics Research Day, Toronto, Canada
 Main Audience: Researcher
 Description / Contribution Value: Poster presentation
8. (2023). Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. APT Scientific Meeting, Toronto, Canada
 Main Audience: Researcher, Competitive?: Yes
 Description / Contribution Value: Oral presentation

Publications

Journal Articles

1. Tran, N.-A., McGrory A., Poonai, N., Heath, A. (2024). A Comparison of Alternative Ranking Methods in Two-Stage Clinical Trials with Multiple Interventions: An Application to the Anxiolysis for Laceration Repair in Children Trial. Clinical Trials.
 Published,

Thesis/Dissertation

1. Enhancing the Efficiency of Adaptive Platform Trials Through the Exploration of Alternative Treatment Ranking Methods. (2024). University of Toronto. Master's Thesis. Supervisor: Dr. Anna Heath