

curriculum vitae of
Haider Riaz Khan
PHYSICIST · PHILOSOPHER

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EDUCATION

Sep 2017 – Aug 2018	M.A. in Philosophy Thesis: The Phenomenological Origins of Property (Advised by John Turri) Areas of Specialization: Foundations of Quantum Theory, Self-Knowledge, and Ownership	UNIVERSITY OF WATERLOO
Sep 2010 – Apr 2015	B.Sc. in Physics and Computer Science Special Research Project: The Building of a Cellular Detector (Advised by Paul François)	MCGILL UNIVERSITY

PUBLICATIONS

CONFERENCE AND JOURNAL PUBLICATIONS

1. Nan Li, Jeff Lei, **Haider Riaz Khan**, Jingshu Liu, Yun Guo. Applying Combinatorial Test Data Generation to Big Data Applications. *ASE 2016: Proceedings of the 31st IEEE/ACM International Conference on Automated Software Engineering*, Pages 637-647, Singapore, August 2016.
2. **Haider R. Khan** and John Turri. (in press). Phenomenological Origins of Psychological Ownership. *Review of General Psychology*.

POPULAR PUBLICATIONS

3. **Haider Riaz Khan**. The Forever War. *Commune*, Issue 5, Winter 2020.

AWARDS & HONORS

2018	Paul Seligman Memorial Scholarship	UNIVERSITY OF WATERLOO, \$1200
2015	Dean's Multidisciplinary Undergraduate Research List	MCGILL
2014	NSERC-CREATE Neuroengineering Award	MCGILL, \$5,625
2010	Alexander Rutherford Scholarship	WESTERN CANADA HIGH SCHOOL, \$2,500

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C, Bash, MATLAB
Data Management: Gremlin, SQL, MySQL, Amazon Neptune
Development & Automation: Jenkins, Maven, Docker, Kubernetes, GitHub Actions
Other: Git, SSH, GCC, javac, Latex

WORK

July 2021 - Pres	Senior Software Engineer Automating AWS cloud infrastructure via terraform, implementing observability infrastructure, and the general maintenance of both back end and front end services.	AVENUE 8 (NYC, USA)
August 2019 - July 2021	Software Engineer Building and improving Lifion's graph database infrastructure. Writing optimized graph database traversals.	LIFION BY ADP (NYC, USA)
Jan 2016 - Feb 2017	Software Engineer Contributed to the development of a Java based combinatorial test data generator called BIT-TAG.	MEDIDATA SOLUTIONS (NYC, USA)
May 2014 - April 2015	NSERC Neuroengineering Fellow Built CANDLE-J; a 3-D image denoising software designed as an ImageJ plugin. CANDLE-J is very adept at processing deep in vivo 3D multiphoton microscopy images where the signal to noise ratio (SNR) is low.	RUTHAZER LAB, MONTREAL NEUROLOGICAL INSTITUTE