



## Maximilian Kahn

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### Question

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At Quest University Canada, all students must choose a Question which serves as a motivation for their undergraduate thesis.

- **What is Intelligence?**

Are contemporary machine learning algorithms really intelligent? Or, can they all be roughly reduced to glorified search algorithms — and should we consider search algorithms intelligent? Similarly, are humans fundamentally the same as machines, or is there a key component that humans possess but that computers lack? What role does self-awareness and memory play in intelligence? I am interested in the promise of artificial general intelligence and am excited about the philosophical and engineering challenges such a lofty goal presents.

### Education

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- **Quest University Canada (QUC)** **2015—(anticipated) 2019**  
QUC is an innovative and interdisciplinary university, with self- designed majors and an academically demanding personalized education. Relevant courses I have taken include: Machine Learning, Artificial Intelligence, Data Analyses Using R, Multivariable Calculus, Linear Algebra, Partial Differential Equations, Computer Programming, and Computer Science.

### Technical Strengths

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- **Programming Languages**  
Proficient in Python and Rust. Have experience programming in Java and Scheme.
- **Standard First Aid - CPR A - AED** **2018—(expires) 2021**
- **East China Normal University, Shanghai**  
Studied Mandarin at an intermediate level.
- **Hong Kong Language School, Hong Kong**  
Studied Mandarin and Cantonese at a beginner – intermediate level.

### Experience

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- **Peer-tutor at QUC** **2017—2018**  
Tutored students in quantitative reasoning. Guided students in Calculus 1, Multivariable Calculus, and Mathematical Ideas in Finance. Collaborated with other peer-tutors to implement a survey for the organization.

- **Reliable Corporation, Toronto** **Summer 2017**  
Transferred sales history from Netsuite to Shopify. Worked as a technician repairing faulty circuits in small appliances.
- **Collaborator, QUC Art Magazine** **2015**  
Created and submitted artwork to the QUC student-run art magazine. Collaborated with others on magazine layout.
- **Social Change and Youth Leadership Conference, University of Toronto** **2012**  
Prepared a presentation on possible solutions to the female infanticide crisis in Asia with a group of other students and presented it to the SCYLC panel.

## Academic Achievements

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- **QUC Presidential Scholarship** **2015–present**
- **President's List** **2016–2018**  
Awarded to the top 10% of the student body for outstanding academic achievement and contributions to the university.
- **3.82/4.00 GPA** **present**

## Research

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- **AAAI Birds of a Feather** **Summer 2018**  
Performed self-directed research for the AAAI Birds of a Feather undergraduate research challenge. I coauthored the paper, *Predicting Unsolvable Deals in the Birds of a Feather Solitaire Game*, with Dr. Richard Hoshino. We will be presenting our research at the Canadian Mathematical Association Winter Meeting in December 2018. The paper has been accepted into the Educational Advances in Artificial Intelligence conference (EAAI-19).

## References

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- **Dr. Darcy Otto**  
Mentor and Professor of Philosophy and Computer Science at QUC.  
✉ darcy.otto@questu.ca
- **Dr. Richard Hoshino**  
Professor of Mathematics at QUC.  
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- **Dr. Andrew Hamilton**  
Professor of Physics at QUC.  
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- **Dr. Luis Serrano**  
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