

ZACH ROTHENBERG

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SUMMARY

Soon to be college graduate with strong theoretical math and machine learning research experience. Curious and self motivated learner interested in tackling challenging problems. Would like to obtain a position that would allow me to utilize existing programming expertise while continuing to develop knowledge.

EDUCATION

Swarthmore College, Swarthmore PA 2016–2020 (Expected)

- Bachelor of Arts with majors in Mathematics and Computer Science
- GPA: 3.76
- Honors in Mathematics, experience with graduate level math including:
- Abstract Algebra, Real Analysis, Complex Analysis, and Topology

EXPERIENCE

Swarthmore College, Swarthmore PA 2018–2019

Undergraduate Researcher

- Researched applying deep neural network models on DNA sequence data
- Implemented and experimented with Feed Forward, CNN, RNN, and Transformer models
- Independently selected and performed a literature survey of relevant academic papers
- Designed and tested solutions for highly imbalanced dataset training

Swarthmore College, Swarthmore PA 2018–2019

Math Clinician

- Led a weekly drop in clinic providing help across all math classes offered at Swarthmore
- Gained comfort thinking through unseen problems and communicating concepts

HereNow Systems, Cambridge MA 2017

Field Technician and Mobile Developer

- Directed a team of race timing technicians and livestream operators at rowing regattas
- Developed prototype live race results application for IOS using Swift

SKILLS

- Programming Languages: Python, Clojure(Script), C++, L^AT_EX, Emacs Lisp
- Technologies: Pytorch, Keras, NumPy, SciPy, scikit-learn, UNIX, git