

Anael Kuperwajs Cohen

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Education

2017–2021 **Macalester College (St. Paul, MN).**

B.A. in Computer Science and Applied Mathematics and Statistics

Concentration in Cognitive Science

GPA: 3.9/4.0

Relevant Coursework

Computer Science: Network Science, Collective Intelligence, Introduction to Artificial Intelligence, Computer Systems Organization, Algorithm Design and Analysis, Software Design and Development, Theory of Computation, Object-Oriented Programming and Data Structures

Applied Mathematics and Statistics: Advanced Data Science in R, Probability, Statistical Machine Learning, Discrete Mathematics, Linear Algebra, Applied Multivariable Calculus III, Introduction to Statistical Modeling

Cognitive Science: Developmental Psychology, Educational Psychology, Cognitive Neuroscience, Comparative Cognition, Philosophy of Mind, General Chemistry I/II

Research and Work Experience

Summer 2020 **Computer Science Education Research Assistant**, *University of Washington*, Seattle, WA.

- Studied factors that influence social help-seeking of CS1 students
- Conducted semi-structured interviews and performed qualitative analysis
- Member of the Code and Cognition lab within the Information School
- Part of the Design. Use. Build. (DUB) community: the intersection of HCI and Design at UW

Summer 2019 **Interdisciplinary Software Engineering Research Assistant**, *Carnegie Mellon University*, Pittsburgh, PA.

- Penrose project: turns simple mathematical notation into diagrams
- Implemented Penrose Tutor: problem sets that utilize visuals for math education
- Paper accepted into PLATEAU, an HCI and PL workshop
- Used JSX and CSS in React

Summer 2018 **Virtual Classics Research Assistant**, *Macalester College*, St. Paul, MN.

- Virtual reality programming in C# with Unity
- Implementation and evaluation of 3D partial-object selection interfaces
- Used HTC Vive head mounted VR display, wireless Vive controllers, and a laser-based tracking system
- Clare Boothe Luce grant recipient

2018–2021 **Computer Science and Statistics TA**, *Macalester College*, St. Paul, MN.

- Object-Oriented Programming and Data Structures (COMP 124), Statistical Machine Learning (STAT 253), Introduction to Statistical Modeling (STAT 155), Theory of Computation (COMP/MATH 361)
- Instruct the intro to Java course lab period
- Grade class projects, give feedback on assignments, and provide constructive support for students during weekly office hours

Publications

Conferences and Workshops.

- **Kuperwajs Cohen, A.**, Ni, W., & Sunshine, J. (2019). Designing Declarative Language Tutorials: a Guided and Individualized Approach. OASIs, Vol. 76, PLATEAU.
- Jackson, B., Beckham, K., **Kuperwajs Cohen, A.**, Heggseth, B. (2019). Comparing Convex Region-of-Interest Selection Techniques for Surface Geometry. Virtual Reality and Software Technology.

Technical skills

Programming.

- Comfortable in Java and R. Familiar with C#, C, JavaScript, JSX, CSS, HTML, Python.

Software.

- Comfortable with Git, RStudio, Gephi, Microsoft Office. Familiar with Unity, React.

Languages.

- Proficient in English, Spanish, Hebrew.

Honors, Awards, and Recognition

- 2017-2020 Macalester College Dean's List
- 2017-2021 DeWitt Wallace Distinguished Scholar (4-Year Merit Scholarship)
- 2017 Woodinville High School Valedictorian (GPA: 4.0/4.0)
- 2016 National Hispanic Recognition Award (PSAT)
- 2016 AP Scholar with Distinction

Service and Activities

- 2018-2021 13th Street, LatinX hip hop dance group: founder and chair
- 2018-2021 Naming Hate, an annual series of anti-hate lectures and workshops: founder and coordinator