

RACHEL FREEDMAN

rachel.alex.freedman93@gmail.com | <https://rachelfreedman.github.io/> | www.linkedin.com/in/rachelalexfreedman/

EDUCATION

2013-2017	Computer Science/Psychology BA, <i>Duke University</i> 3.93 GPA <ul style="list-style-type: none">• Graduated <i>magna cum laude</i> with High Distinction in Computer Science• Designed interdepartmental major entitled “Artificial Intelligence Systems,” combining computer science, psychology, neuroscience and philosophy to explore interdisciplinary perspectives on artificial intelligence
2015-2016	Registered Visiting Student, <i>Oxford University</i> 3.93 GPA <ul style="list-style-type: none">• Completed 9 courses in computer science and philosophy taught by Oxford tutors over the course of 3 terms• Co-founded existential risk research discussion society
2011-2017	Part-Time Student, <i>UNC Chapel Hill</i> 4.00 GPA <ul style="list-style-type: none">• Completed 10 courses while in high school and as required by the Robertson Scholarship

PUBLICATIONS

Rachel Freedman, Jana Schaich Borg, Walter Sinnott-Armstrong, John Dickerson, and Vincent Conitzer. Adapting a Kidney Exchange Algorithm to Align with Human Values. In *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*, New Orleans, LA, USA, 2018. **Outstanding Student Paper Honorable Mention**

HONORS

Outstanding Student Paper Honorable Mention, AAAI 2018	2018
Phi Beta Kappa, <i>Duke University</i>	2017
<i>magna cum laude</i>, <i>Duke University</i>	2017
High Distinction in Computer Science, <i>Duke University</i>	2017
Rhodes Scholarship Finalist, <i>Rhodes Trust</i>	2017
Robertson Scholarship, <i>Robertson Scholarship Leadership Program</i>	2013-2017
The Robertson Scholars Leadership Program “invests in young leaders who strive to make transformational contributions to society,” awarding four years of full tuition, summer project funding, and leadership training.	
Thomas J. Watson Memorial Scholarship, <i>IBM</i>	2013-2016
President’s Volunteer Service Gold Award, <i>US Government</i>	2013

WORK AND RESEARCH

- Sept 2017 – Present **Software Engineer, Galatea Associates (London, UK)**
- Design and develop complex position-keeping and regulatory compliance solutions for financial institutions as part of small international consulting team
- Aug 2016 - Aug 2017 **Moral AI Researcher, Duke University (Durham NC, US)**
- Conducted a year-long independent research project incorporating computer science and psychology methodologies in the field of artificial morality
 - Adapted a kidney exchange algorithm to align with human values by modeling underlying frameworks in human responses to moral dilemmas
 - Awarded High Distinction for my thesis research; presented and published this work at AAAI 2018, where it won Outstanding Student Paper Honorable Mention, and presented it as a poster at AIES 2018
- May 2015 - Aug 2015 **Software Engineering Intern, Microsoft (Seattle WA, US)**
- Collaborated with team of interns to build a data visualization service
- June 2014 - July 2014 **Independent Educational Psychology Researcher (Cleveland MS, US)**
- Designed, administered and evaluated a psychological survey characterizing the impact of the Mississippi Summer Arts Institute on student learning strategies
 - Applied survey and statistical techniques learned from research assistant experience and coursework, reviewed relevant literature, and wrote an article reporting the results
- Jan 2014 - May 2014 **Educational Neuroscience Research Assistant, Duke University (Durham NC, US)**
- Evaluated impact of technology-based intervention on at-risk students' numerical cognition, and contributed to manuscript submitted for publication
- Aug 2013 - Dec 2013 **Educational Psychology Research Assistant, Duke University (Durham NC, US)**
- Administered surveys to evaluate the impact of STEM undergraduates' epistemological beliefs on their academic engagement and success

SERVICE AND LEADERSHIP

- Oct 2015 - June 2016 **Co-founder and President, Oxford Existential Risk Society (Oxford, UK)**
- Co-founded society that grew to 25+ students, academics, and community members who met weekly at the Oxford Future of Humanity Institute to discuss academic papers, philosophical arguments, and technologies
 - Introduced members to existential risk, prompted them to consider their career's impact on specific risks, and facilitated meaningful discussion between individuals of varied academic backgrounds
 - Recruited speakers from Machine Intelligence Research Institute, Oxford Future of Humanity Institute, and MIT
 - Advised students founding similar groups at Princeton and Cambridge
- June 2014 - July 2014 **Publicist, Mississippi Summer Arts Institute (Cleveland, MS)**
- Volunteered 40-60 hours/week writing press releases and managing social media to support creative opportunities for rural students ages 5-18

July 2011 -
June 2013

Tutor, John Avery Boys and Girls Club (Durham, US)

- Tutored at-risk elementary school students weekly
- Designed and implemented a self-confidence intervention based on my social psychology coursework
- Awarded President's Volunteer Service Gold Award for my work

INTERESTS

Martial Arts

Earned World Taekwondo Certified 4th degree black belt in Taekwondo and 2nd degree black belt in Kumdo. Trained, taught and competed for 12 years in martial arts including Taekwondo, Kumdo, Krav Maga and Kali.

Traveler

Backpacked solo through 10 countries in Western Europe, and moved to London, England after graduation to facilitate further international travel and cultural awareness.