

J. BLAKE BULLWINKEL

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EDUCATION

Harvard University , Cambridge, MA	Expected June 2022
S.M. in Data Science	
<i>Relevant coursework:</i> Data Science I, Artificial Intelligence, Systems Development, Environmental Modeling.	
Williams College , Williamstown, MA	June 2020
B.A. in Mathematics and Chinese. GPA 3.83/4.0 (<i>cum laude</i>)	
University of Oxford , Oxford, UK	June 2019
Attended as a visiting student as part of the selective, year-long Williams-Exeter Program at Oxford.	
UWCSEA (East Campus) , Singapore	June 2016
IB Diploma. Highest grade (7) in HL math, physics, chemistry, Chinese. Class of '16 Graduation Student Speaker .	

EXPERIENCE

Marble , remote, <i>Co-Founder</i>	Summer 2020
Designed and developed a React Native eco-social app for iOS and Android. Uses phone sensor API data to estimate carbon footprint from travel, allowing users to offset emissions and share their progress with friends.	
Institute for Human and Machine Cognition , Pensacola, FL, <i>Data Science Intern</i>	Jan 2020
Research internship at IHMC. Used Python for data cleaning, database management and data visualization to analyze flight simulation data and correlate psychophysiological indicators in pilots with flight performance.	
Zola Electric , Amsterdam, Netherlands, <i>Digital Platforms Intern</i>	Summer 2019
Paid internship with Zola Electric, a tech startup providing solar energy access solutions to sub-Saharan Africa. Included 1) product and sales model market research and presentation of recommendations to global team and 2) data analysis using SQL to investigate transaction delays and improve efficiency of Zola's software platform.	
Bill & Melinda Gates Foundation , Beijing, China, <i>Policy Intern</i>	Summer 2018
Prepared research reports in Chinese on scaling development-related best practices from China across Africa.	
Williams College , Williamstown, MA, <i>Chinese Teaching Assistant</i>	Sept 2017 to May 2020
Selected by Chinese department to act as a salaried assistant to professors through 1:1 tutoring sessions.	

SELECTED PROJECTS (see more at blakebullwinkel.com)

Modeling Electricity Consumption in the US , Williamstown, MA	May 2020
Used MLR in R to predict household electricity consumption in the US from various residential characteristics.	
Early Epidemiological Model Parameters for COVID-19 , Williamstown, MA	February 2020
Used Python to model early-stage COVID-19 case data in mainland China using a system of ODEs.	
"Optimize Your 32" Course Selection Tool , Williamstown, MA	Nov 2019
Used Google's OR-Tools Python package to solve course selection at Williams as a linear programming problem.	

LEADERSHIP AND EXTRACURRICULAR

Exeter College Boat Club , Oxford, UK, <i>Men's Captain</i>	Nov 2018 to June 2019
Elected to lead the Exeter College Boat Club as the men's rowing captain, attending meetings with the rest of the executive committee, collaborating with coaches to organize training and selecting crews for regattas.	
Williams Men's Crew (Varsity Rowing)	Sept 2016 to June 2020
Putnam Competition , ranked 627/4,229 among undergrads specializing in mathematics.	Dec 2019

HONORS AND AWARDS

Goldberg Prize in Mathematics for the best senior colloquium (department-wide senior prize)	2020
Linen Prize in Chinese for achieving distinction in Chinese (department-wide senior prize)	2020
Carolyn Korthals Altes Scholarship for academics and potential to contribute to society	2019
Williams College Alumni Sponsored Internship (ASIP) Grant	2019

SKILLS AND INTERESTS

Working proficiency in Chinese (Mandarin); proficiency in Python, R, SQL, Javascript, HTML/CSS, L^AT_EX.
Coding projects ([Github account](#)). Writing ([Medium blog](#)). Rubik's Cube Solving ([WCA profile](#)).