

# J. BLAKE BULLWINKEL

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## EDUCATION

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

## PROFESSIONAL EXPERIENCE

<b>Marble</b> , remote, <i>Co-Founder</i>	Summer 2020 to Present
<ul style="list-style-type: none"><li>Designed and developed a React Native eco-social app that uses phone sensor API data to estimate carbon footprint from travel, allowing users to offset emissions and share their progress with friends.</li><li>Leading a team of 3 to launch app on the App Store/Google Play and maintaining a public release website.</li></ul>	
<b>Institute for Human and Machine Cognition</b> , Pensacola, FL, <i>Data Science Intern</i>	Jan 2020
<ul style="list-style-type: none"><li>Used Python and PostgreSQL for cleaning, management and visualization of flight simulation data.</li><li>Used hypothesis testing to justify correlations between physiological indicators in pilots and flight performance.</li></ul>	
<b>Zola Electric</b> , Amsterdam, Netherlands, <i>Digital Platforms Intern</i>	Summer 2019
<ul style="list-style-type: none"><li>Conducted software and sales model market research and presented novel findings to a global team of engineers and product managers aimed at providing more competitive solar energy access solutions to sub-Saharan Africa.</li><li>Used MySQL to query time series data and identify transaction delays within Zola's software platform.</li></ul>	
<b>Bill &amp; Melinda Gates Foundation</b> , Beijing, China, <i>Policy Intern</i>	Summer 2018
<ul style="list-style-type: none"><li>Prepared research reports in Chinese on scaling development-related best practices from China across Africa.</li></ul>	

## TECHNICAL PROJECTS

<b>Modeling Electricity Consumption in the US</b> , Williamstown, MA	May 2020
<ul style="list-style-type: none"><li>Used MLR in R to predict household electricity consumption in the US from various residential characteristics.</li></ul>	
<b>Early Epidemiological Model Parameters for COVID-19</b> , Williamstown, MA	February 2020
<ul style="list-style-type: none"><li>Used Python to model early-stage COVID-19 case data in mainland China using a system of ODEs.</li></ul>	
<b>"Optimize Your 32" Course Selection Tool</b> , Williamstown, MA	Nov 2019
<ul style="list-style-type: none"><li>Used Google's OR-Tools Python package to solve course selection at Williams as a linear programming problem.</li></ul>	

## LEADERSHIP EXPERIENCE

<b>Exeter College Boat Club</b> , Oxford, UK, <i>Men's Captain</i>	Nov 2018 to June 2019
<ul style="list-style-type: none"><li>Elected to lead the Exeter College Boat Club as the men's rowing captain during year abroad at Oxford.</li><li>Hosted meetings with the executive committee and worked with coaches to organize training and crew selection.</li></ul>	
<b>Williams College</b> , Williamstown, MA, <i>Chinese Teaching Assistant</i>	Sept 2017 to May 2020
<ul style="list-style-type: none"><li>Selected by Chinese department to act as a salaried assistant to professors through 1:1 tutoring sessions.</li></ul>	

## HONORS AND AWARDS

<b>Goldberg Prize in Mathematics</b> for the best mathematics colloquium (department-wide senior prize)	2020
<b>Linen Prize in Chinese</b> for achieving distinction in Chinese (department-wide senior prize)	2020
<b>Carolyn Korthals Altes Scholarship</b> for academics and potential to contribute to society	2019
<b>Williams College Alumni Sponsored Internship (ASIP) Grant</b>	2019
<b>Putnam Competition</b> (ranked 627/4,229 among undergrads specializing in mathematics)	2019

## SKILLS AND INTERESTS

<b>Language</b>	Chinese (Mandarin); Python (SciPy, scikit-learn), R, SQL, Javascript, React Native, HTML/CSS.
<b>Hobby</b>	Rowing, Writing ( <a href="#">Medium blog</a> ), Rubik's Cube Solving ( <a href="#">WCA profile</a> ).