

# J. BLAKE BULLWINKEL

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## EDUCATION

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| <b>Harvard University</b> , Cambridge, MA   | Expected June 2022 |
| S.M. in Data Science  |                    |
| <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          |
| International Baccalaureate (IB). Highest possible grade (7) in higher-level mathematics, physics, chemistry and Chinese. Class of '16 <a href="#">Graduation Student Speaker</a> . |                    |

## WORK EXPERIENCE

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| <b>Institute for Human and Machine Cognition</b> , 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.  |                       |
| <b>Zola Electric</b> , 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. |                       |
| <b>Bill &amp; Melinda Gates Foundation</b> , Beijing, China, <i>Policy Intern</i>   | Summer 2018           |
| Prepared research reports in Chinese on scaling development-related best practices from China across Africa.  |                       |
| <b>Williams College</b> , 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.  |                       |

## TECHNICAL PROJECTS

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| <b>"Optimize Your 32" Course Selection Tool</b> , Williamstown, MA   | Nov 2019          |
| Used Google's OR-Tools Python package to solve course selection at Williams as a linear programming problem. |                   |
| <b>Snartools Mobile Application</b> , Williamstown, MA   | April to Aug 2017 |
| Developed desktop application in Python that allows Williams students to optimize their food orders.         |                   |

## LEADERSHIP EXPERIENCE

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| <b>Exeter College Boat Club</b> , 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. |                       |
| <b>Oxford Development Consultancy</b> , Oxford, UK, <i>Project Officer</i>   | Nov 2018 to May 2019  |
| Worked in an Oxford team to develop a social impact measurement system for a Brazilian microfinance startup.   |                       |

## EXTRACURRICULAR ACTIVITIES

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| <b>Williams Men's Crew (Varsity Rowing)</b>  | Sept 2016 to June 2020 |
| <b>Putnam Competition</b> , ranked 627/4,229 among undergrads specializing in mathematics. | Dec 2019               |

## HONORS AND AWARDS

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| <b>Linen Prize in Chinese</b> for achieving distinction and showing outstanding promise in Chinese | June 2020 |
| <b>Goldberg Prize</b> for the best senior mathematics colloquium (annual department-wide prize)    | May 2020  |
| <b>Carolyn Korthals Altes Scholarship</b> for academics and potential to contribute to society     | May 2019  |
| <b>Williams College Alumni Sponsored Internship (ASIP) Grant</b>                                   | May 2019  |

## SKILLS AND INTERESTS

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Working proficiency in Chinese; proficiency in Python (NumPy, Pandas, scikit-learn, seaborn), R, SQL, L<sup>A</sup>T<sub>E</sub>X. Coding projects ([Github account](#)). Writing ([Medium blog](#)). Rubik's Cube Solving ([WCA profile](#)).