

Xenia ZHAO

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EDUCATION

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| 2021-2025 | Massachusetts Institute of Technology, Cambridge, MA <ul style="list-style-type: none">➢ Candidate for Bachelor of Science in Computer Science and Bachelor of Science in Economics➢ Relevant courses : Fundamentals of Programming, Computational Thinking and Data Analysis, Math for Computer Science, Statistical Methods in Economics, Microeconomics, Macroeconomics➢ GPA : 4.8/5.0 |
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RESEARCH

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|------------------------|---|
| Sep 2022
- Current | Populating 'Digital Twins' from Public Data Sources to Support Integrated Urban Modeling <ul style="list-style-type: none">➢ Work with datasets in QGIS to create a comprehensive view of urban activity➢ Use Google Places API to extract points of interest in Metro Boston area |
| Jan 2022
- May 2022 | Options for Decarbonizing Aviation : an assessment of air transportation demand and fuel consumption <ul style="list-style-type: none">➢ Used Excel to model passenger aviation flows by geographic region➢ With MIT senior research scientist Sergey Paltsev at the MIT Energy Initiative |
| Aug 2020
- Apr 2021 | Rethinking Food Waste : optimizing the food bank supply chain to tackle food waste and food insecurity <ul style="list-style-type: none">➢ Used Python and GAMS optimization software to balance economic, environmental, and social goals➢ Won 2nd at International Science and Engineering Fair |
| Apr 2019
- May 2020 | Modeling Plastic Pollution : a system dynamics approach to understand and control macroscopic plastic flow <ul style="list-style-type: none">➢ Used queueing theory to predict plastic waste in the ocean and estimate cleanup times➢ Paper (first author) presented at 2nd Global Symposium on Waste Plastic |

WORK EXPERIENCE

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| Jun 2022
- Aug 2022 | World Wildlife Fund (WWF) Markets Institute Intern <ul style="list-style-type: none">➢ Designed original project on tracking scope 3 carbon emissions through the salmon aquaculture supply chain➢ Assessed impacts of different accounting frameworks for suppliers, consumers, and investors➢ Examined and refined methodology for calculations of carbon emissions from land use change |
| Oct 2018
- Aug 2020 | ICAN AZ <ul style="list-style-type: none">➢ Provided a safe, educational environment and helped at-risk youth build better futures➢ Hosted summer math boot camp in 2019 and donated \$1500 proceeds to ICAN➢ Sewed and donated 100+ masks during pandemic |

LEADERSHIP EXPERIENCE

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| Sep 2022
- Current | Women Business Leaders <ul style="list-style-type: none">➢ Learn and practice skills in entrepreneurship, consulting, and finance➢ Help organize high school conference, introducing topics in business to students in underrepresented genders |
| Feb 2022
- Current | Undergraduate Association Committee on Sustainability <ul style="list-style-type: none">➢ Involve the broader undergraduate community in current environmental and climate policy➢ Maintain a community garden on campus to promote green spaces and gardening |
| Jan 2022
- Current | Asian American Initiative Zine Lead <ul style="list-style-type: none">➢ Organize campus-wide workshops and collect submissions from Asian American visual and literary artists➢ Design, compile, and print 500 copies of zine, distribute to wider MIT community |

DISTINCTIONS

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| 2020, 2021 | American Invitational Mathematics Examination (AIME) Qualifier |
| 2020 | US Physics Olympiad (USAPhO) Qualifier |
| 2021 | National Merit Finalist and Scholarship Recipient |