

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, Economics, and Data Science> GPA : 4.8/5.0 |
| 2017-2021 | Hamilton High School, Chandler, AZ <ul style="list-style-type: none">> Relevant courses : AP Statistics, Multivariable calculus, AP Physics C> SAT : 1570, GPA : 4.0/4.0 |

🧪 RESEARCH

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| 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 |
| Jan-May 22 | 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 |
| 2020-2021 | 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 |
| 2019-2020 | 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-Aug 22 | 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 |
| 2018-2020 | 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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| Current | Undergraduate Association Committee on Sustainability <ul style="list-style-type: none">> Involved the broader undergraduate community in current environmental and climate policy> Maintained a community garden on campus to promote green spaces and gardening |
| 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 |
| 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 |

💡 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 |