

# Max Aaron Fefer

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## EDUCATION

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**M.S. Water Resources Engineering**, UC Davis, GPA: 3.93 September 2016 - Present

Coursework: Probabilistic Design and Optimization, Water Resources Systems Analysis, Computational River Mechanics, Water Resources Management, Watershed Hydrology.

**B.S. Civil and Environmental Engineering**, UC Berkeley, GPA: 3.597 August 2012 - May 2016

Coursework: Engineering Systems Optimization, Designs of Cyber Physical Systems, Water Chemistry, Concrete Technology, Introduction to Geotechnical Engineering, Environmental Microbiology.

## EXPERIENCE

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**Graduate Student Researcher**, University of California, Davis September 2016 - Present

I work with Professor Jon Herman on optimization modeling of the California water system to understand climate change impacts on urban/agricultural water supply using PyVIN, an economic optimization model of California's intertidal water supply system. PyVIN serves as a cross-platform, extensible model to evaluate systemwide water operations and allow researchers and practitioners to explore long-term scenarios and adaptation strategies.

**House Manager**, Tellefsen Hall Association March 2015 - May 2016

I was in charge of Tellefsen Hall, a private dormitory for 44 members of the UC Berkeley Marching Band located in a historic landmark in North Berkeley, CA built in 1888. My duties include managing house employees such as the chef and house cleaners, overseeing a \$300,000 renovation of the building's exterior, and recruiting new members to the house. This position gave me the opportunity to implement project management and engineering skills on a large home capital project.

**Hydraulics Engineering Intern**, San Francisco Public Utilities Commission June 2015 – January 2016

Performed hydraulic modeling on the potable water distribution and the auxiliary water supply systems of San Francisco. My responsibilities included a technical memo on the effects new developments in San Francisco will have on existing infrastructure and recommendations for infrastructure upgrades.

**Water Resources Engineering Intern**, Burleson Consulting, Inc. May 2014 – August 2014

Analyzed the water resources portfolio of the Sutter National Wildlife Refuge. This project allowed me to work closely with an engineering team from Burleson Consulting Inc, RMC Water and Environment, and Wood Rogers. My main responsibilities were collaboration with the Bureau of Reclamation, project management, technical writing, and GIS analysis.

## AWARDS

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Richard and Joy Dorf Fellowship	February 2017
National Science Foundation PEGS 21 Fellowship	August 2016
Brown & Caldwell GLBTQ Scholarship	June 2016
Chevron Environmental Engineering Scholarship	May 2015, May 2016
Society of American Military Engineers - Sacramento Post Scholarship	May 2015, May 2016