

# Tynan Challenor

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## EDUCATION

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**PhD student in Economics, University of Washington**

*September 2023-Present*

**M.S. Biomedical Informatics, Stanford University**

*January 2020*

**B.S. Biology with Honors, Stanford University**

*June 2017*

*Minor History*

## RESEARCH

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### Work in Progress

On the Value of Flats: The Impact of Up-Zoning on Rental Prices, Slum-Dwelling, and Mortality in Delhi (with Eric Wang)

BAMIMBY (By All Means In My Back Yard): A Dynamic Urban Model of Street Votes

### Select Pre-PhD Policy Briefs with the Institute for Research on Labor and Employment

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2023, March 22). California's Uninsured in 2024: Medi-Cal expands to all low-income adults, but half a million undocumented Californians lack affordable coverage options. UC Berkeley Labor Center

Lucia, L., **Challenor, T.**, Dietz, M., (2022, April 28) How will Californians' health coverage sources change when the public health emergency ends? UC Berkeley Labor Center

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2022, April 14). California's biggest coverage expansion since the ACA: Extending Medi-Cal to all low-income adults. UC Berkeley Labor Center

Kronick, R., Mulkey, M., Lucia, L., Kadiyala, S., Jacobs, K., Kominski, G.F., **Challenor, T.**, (2021, July 8). Estimated Effects of Unified Financing in California: Summary of Methods and Assumptions (Pages 5-6)

Dietz, M., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Lucia, L., Kominski, G.F., (2021, April 13). American Rescue Plan Improvements to Covered California Affordability: Who Gains?. UC Berkeley Labor Center

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2021, April 13). Undocumented Californians Projected to Remain the Largest Group of Uninsured in the State in 2022. UC Berkeley Labor Center

## RA EXPERIENCE

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**Research and Policy Assistant** *August 2020 – August 2023*

**UC-Berkeley Institute for Research on Labor and Employment**

Co-led development of the CalSIM microsimulation model (**Python**) assessing federal and state health-policy impacts on coverage and affordability; performed data cleaning and other RA duties in **R**

**Data & Policy Analyst** *July 2019 - July 2020*

**City of San Jose Parks, Recreation & Neighborhood Services**

Fit models in **R** to study connection between maternal and child health and gang incidents. Coupled statistical analysis with geospatial analysis in **ArcGIS**

**Undergraduate Research Assistant** *June 2014 - June 2017*

**Stanford Department of Earth System Sciences**

Performed DNA extraction, quantitative PCR (qPCR), isotopic analysis and literature review for a lab that studies nutrient cycling in aquatic systems

## PROJECTS and POSITIONS

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**Consultant with the Center for Social Science Computation and Research (CSSCR)** *Autumn 2024 - Present*

Consult on computational and statistical questions across social science research; provide technical assistance primarily in R and Python (20 hrs/wk)

**Medical Literature Review Website Developer** *Summer 2024 – Present*

Build website with integrated LLM to determine medical evidence for off-label drug-use (in-progress)

**Library Metadata Specialist** *Autumn 2024 – Present*

Write XSLT code to transform bibliographic records from MARC21 to RDA

**Predicting Chronic Opioid-use in Patients in Florida Medicaid Data** *Spring 2019*

Built machine-learning models (**Python**) to predict opioid dependency among opioid-naïve patients; conducted descriptive profiles of prescribers and patients.

**Detecting Coconut Trees from Aerial Photographs for Disaster Relief** *Winter 2018*

Designed a **TensorFlow CNN** to identify coconut trees in post-disaster aerial photos for the **World Bank Open Data Challenge** on food security.

**Honors Thesis: Stanford Department of Earth Systems Science** *June 2016 - June 2017*

*The Resilience of a River: Nitrification and Microbial Activity in Response to Wastewater Effluent*

Collected field samples and performed **qPCR, isotopic, and MATLAB** analyses to quantify microbial nitrogen cycling in the Sacramento-San Joaquin Delta.

## TEACHING EXPERIENCE

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**Graduate TA for University of Washington Undergraduate Economics**

- ECON 200: Introduction to Microeconomics

*Jan 2024 – Mar 2024*

- ECON 201: Introduction to Macroeconomics Mar 2024 – Jun 2024
- Graduate TA for Stanford Undergraduate Biology Courses** Spring 2017 - Spring 2019

  - BIO 43: Evolution, Ecology, and Plant Biology, TA Spring 2017
  - BIO 83: Biochemistry & Molecular Biology, CA Winter 2018
  - BIO 86: Cell Biology, TA Spring 2018
  - BIO 82: Genetics, TA Autumn 2018
  - BIO 86: Cell Biology, TA Spring 2019

**Teaching Fellow, East Palo Alto Stanford Academy (EPASA)** Summer 2017, Summer 2018  
Taught two summers of 8th grade algebra and served on the community-development committee each year for academic summer school program.

**Intern: Young In Prison South Africa (YIPSA)** Summer 2015  
Taught improv and physical theater in Pollsmoor Maximum Security Prison in Cape Town, South Africa

## HONORS, GRANTS, AND AWARDS

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**Stanford Community Impact Fellowship** July 2019 – July 2020  
(\$40,000) Stipend for applied community-based work awarded by Stanford Haas Center for Public Service

**Haas Center for Public Service Teaching Fellowship** Summer 2017, Summer 2018  
(\$5,000) Stipend for summer teaching awarded by Stanford Haas Center for Public Service

**Stanford Biology Departmental Honors** Spring 2017  
Honors thesis with the department of Environmental Earth Systems Science: *The Resilience of a River: Nitrification and Microbial Activity in Response to Wastewater Effluent in the Sacramento/San Joaquin River Delta*

**Stanford Environmental Science Undergraduate Research (SESUR) Grant** Summer 2014  
(\$6,000) Stipend for undergraduate research in the Earth Sciences awarded by Stanford Earth Systems Science

**Stanford Fund Scholarship** 2013 - 2017  
(\$45,000/yr) Stanford fund scholarship for undergraduate tuition

## VOLUNTEER EXPERIENCE

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**Court Appointed Special Advocate (CASA)** June 2020 – June 2021  
Advocate for teen experiencing the foster system. Attended meetings with case-workers, lawyers, school staff, and composed a court report every six months advocating for the youth's desires in his case.

**Spanish Translator for Community Legal Services of East Palo Alto** Autumn 2018 - Spring 2019  
On call to translate English to Spanish for Stanford Law School's Economic Advancement Program (EAP)

## SKILLS

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**Software:** Python (10 years), R (8 years), GIS (3 years), Matlab (2 years), LLM e.g. cursor (1 year)  
**Languages:** English, Spanish (intermediate)