Phone: (415) 672-0321
Email: angel777chen@gmail.com

ANGEL CHEN

LinkedIn: linkedin.com/in/angel-chen-854376181/
GitHub: https://github.com/angelchen7

EDUCATION

University of California, Santa Barbara (UCSB), Santa Barbara, CA — September 2017 - June 2021
Bachelor of Science in Statistics and Data Science

- GPA: 3.91 / 4.0
- Relevant course work: Regression Analysis, Advanced Statistical Modeling, Machine Learning, Time Series, Experimental Design, Survival Analysis, Big Data Analytics, Bayesian Analysis, Stochastic Process, Intro to Environmental Science

RELEVANT EXPERIENCE

Data Analyst - National Center for Ecological Analysis and Synthesis (NCEAS) - Santa Barbara, CA — February 2022 - Present

- Support 8 active Long Term Ecological Research (LTER) Network synthesis working groups by developing reproducible workflows to wrangle, analyze, model, visualize, and integrate various sources of data
- Promote an open approach to synthesis science by hosting workshops on collaborative coding with GitHub and the Tidyverse as-needed for the LTER synthesis working groups.

Data Curator - National Center for Ecological Analysis and Synthesis - Santa Barbara, CA — September 2021 - February 2022
Intern - National Center for Ecological Analysis and Synthesis - Santa Barbara, CA — October 2019 - September 2021

- Utilize R to build metadata and archive ecological, physical, and social data from research projects focused on environmental issues in the Arctic for the Arctic Data Center, a National Science Foundation (NSF) data repository
- Communicate and email with researchers about their file submissions for data quality assurance before publishing their finalized datasets with DOI numbers to the Arctic Data Center (https://arcticdata.io/catalog/data)
- Created metadata records for 7 datasets that inform key findings within the Arctic Report Card for 2020, published by the National Oceanic and Atmospheric Administration (NOAA)
- Answer daily user support emails in an email ticketing system

Student Fellow - Central Coast Data Science Partnership - Santa Barbara, CA — October 2020 - June 2021

- Collaborated on a team capstone project sponsored by the Cheadle Center for Biodiversity and Ecological Restoration by utilizing R and Python to build network visualizations mapping interactions between bees and plants from a big dataset
- Quantified pollen/nectar specialization and classified bee species as specialists or generalists
- Co-authored a poster on leveraging large biological interaction datasets for the 2021 Ecological Society of America (ESA) annual meeting
- Met weekly with project sponsors to give detailed progress updates and coordinate next steps
- Developed and designed original course materials in the format of a final project for undergraduate students in an introductory data science class

UNIVERSITY SERVICE

Member - NCEAS Data Science Chats - Santa Barbara, CA — March 2022 - Present

- Meet weekly with other members of Data Science Chats to discuss and share coding tips and tutorials
- Maintain and update our Data Science Chats website with best practices for cleaner coding

Office Assistant - UCSB Associated Students Administration - Santa Barbara, CA April 2019 - March 2020

- Answered daily phone calls and emails directed at the UCSB Associated Students Administrative Office
- Logged information from requisition forms and checks into Excel spreadsheets
- Uploaded and organized minutes from weekly Associated Students meetings into a public database with tags

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PRESENTATIONS

LaMontagne, J. M., Crone, E. E., Redmond, M., Barton, J., Bell, D., Chaudhary, V. B., Chen, A., Cleavitt, N., Greene, D., Holland, E. P., Johnstone, J., Koenig, W., Lyon, N., Macias, D., Miller, T., Nigro, K., Pearse, I. S., Satake, A., Schulze, M., Slette, I., Snell, R., & Zimmerman, J. (2022, September 20). *Cross-site synthesis: Patterns & drivers of plant reproduction across LTER sites*. LTER All Scientists' Meeting, Pacific Grove, CA, United States.

Bachelder, N. R., Chen, A., Zoe, F., Rapaport, M. K., Bang, J., Solomon, S. J., Lee, M. J., & Seltmann, K. C. (2021, August 5). *Leveraging Large Biological Interaction Data to Quantify Plant Specialization by Bees*. Ecological Society of America Meeting, Virtual. Retrieved from https://escholarship.org/uc/item/33b2t2bq

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SKILLS

- Proficient in Cantonese and Mandarin Chinese
- Microsoft Office Suite (Word, PowerPoint, and Excel)
- Intermediate in R, Python, C++, SAS, Stan, PySpark, SQL