

DONGYANG WEI

P.h.D. Candidate

Department of Geography and Spatial Sciences
University of Delaware
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EDUCATION

- Sept. 2019 - Present University of Delaware (US)
PhD, Geography (expected in 2024)
Advisor: Kyle F. Davis
- Oct. 2017 - Sept. 2018 Imperial College London (UK)
MS, Ecosystem and Environmental Change (merit)
Advisor: I. Colin Prentice and Sandy P. Harrison
- Sept. 2013 - Jun. 2017 Shanghai Jiao Tong University (China)
BS, in Landscape Architecture
- Apr. 2015 - Aug. 2015 Technical University of Munich (Germany)
Exchange Student, in Civil Engineering

EXPERIENCE

- Jun. 2022 - Present Research Assistant
University of Delaware
- Sep. 2019 - May. 2022 Teaching Assistant
University of Delaware
- Oct. 2018 - Apr. 2019 Research Assistant
University of Reading (UK)
Mentors: Sandy P. Harrison and I. Colin Prentice

PUBLICATIONS

Wei, D., Gephart, J. A., Iizumi, T., Ramankutty, N., Davis, K. F. (In Review) “Fluctuations in planted and harvested area explain a substantial portion of crop production shocks in the US”, *Nature Sustainability*.

- Wei, D.**, Herrero, M., Mason-D’Croz, D., Davis, K. F. (In Prep) “Projected dietary trends are unlikely to meet nutritious and sustainable dietary goals”, *Science (invited)*.
- Richter, B. D., Caldwell, P., Davis, K. F., **Wei, D.**, Marston, L. T., Lamsal, G., Ao, Y. Z. (In Review) “Alleviating Water Scarcity by Optimizing Crop Mixtures”, *Nature Water*.
- Wei, D.**, Davis, K. F. (2021). Culturally appropriate shifts in staple grain consumption can improve multiple sustainability outcomes. *Environmental Research Letters*, 16(12), 125006. <https://doi.org/10.1088/1748-9326/ac32fc>.
- Wei, D.**, González-Sampériz, P., Gil-Romera, G., Harrison, S. P., Prentice, I. C. (2021). Seasonal temperature and moisture changes in interior semi-arid Spain from the last interglacial to the Late Holocene. *Quaternary Research*, 1-13, <https://doi.org/10.1017/qua.2020.108>.
- Turner, M., **Wei, D.**, Prentice, I.C., Harrison, S. P. (2020). The impact of methodological decisions on climate reconstructions using WA-PLS. *Quaternary Research*, 1-16. <https://doi.org/10.1017/qua.2020.44>.
- Wei, D.**, Prentice, I. C., Harrison, S. P. (2020). The climatic space of European pollen taxa. *Ecology*, 101, 8. <https://doi.org/10.1002/ecy.3055>.
- Wei, D.**, Harrison, S. P., Prentice I. C. (2019). The climatic space of European pollen taxa. University of Reading. Dataset. <http://dx.doi.org/10.17864/1947.204>.

AWARDS AND HONORS

2022	Climate Change Hub Graduate Research Enhancement Grant, University of Delaware (\$6,037)
2022	University Doctoral Fellowship Award, University of Delaware (\$28,667)
2022	Teaching Assistant Award, University of Delaware
2020	Virtual Student Travel Grant, American Geophysical Union (\$1,000)
2017	Outstanding Capstone Project, Shanghai Jiao Tong University (China)
2016	Advanced Agriculture Scholarship, Shanghai Jiao Tong University (China) (¥2,000)
2015	Excellent Exchange Student Scholarship, Deutscher Akademischer Austausch Dienst (Germany) (€1,500)
2015 - 2016	Internship -- China Urban Construction Design & Research Institute (China)
2014	Academic Excellence Scholarship, Shanghai Jiao Tong University (China) (¥1,000)

TEACHING

University of Delaware (2019 - 2022)

Introduction to GIS, GEOG372 (Teaching assistant)

Geographic Information Science and Systems, GEOG670 (Teaching assistant)

Climate and Climate Change, GEOG341 (Teaching assistant)

Air Pollution Meteorology, MAST/GEOG/CIEG 415/615 (Teaching assistant)

Cartography, GEOG 472/686 (Teaching assistant)

Environmental Statistics, STAT/ENSC 475 (Teaching assistant)

MENTORING

Dec. 2021 - Present Coletti, Carolyn (University of Delaware, BS)

Apr. 2022 - Present Johnson, Carissa (University of Delaware, BS)

PRESENTATIONS

Wei D., Gephart J., Ramankutty N., Davis K. F. (2022) “Majority of Crop Production Shocks Explained by Fluctuations in Planted and Harvested Area in the US”, Poster Presentation (highlighted), American Geophys. Union Annual Meeting.

Wei D., Davis K. F. (2022) “Projected Dietary Trends are Unlikely to Meet Nutritious and Sustainable Dietary Goals in the World”, Poster Presentation, American Geophys. Union Annual Meeting.

Khan B., **Wei D.**, Davis K. F. (2022) “Exploring Links Between Climate Extremes, Cropland Expansion, and Nutrition in Nigeria”, Poster Presentation, American Geophys. Union Annual Meeting.

Wei D. (2022) “How culturally appropriate shifts in staple grain consumption can improve multiple sustainability outcomes”, Oral Presentation, Sustainable Dietary Choices, [Leadwire](#) (*invited*).

Wei D. (2022) “Fluctuations in planted and harvested area explain a substantial portion of crop production shocks in the US”, Oral Presentation, SMSP Graduate Student Symposium, University of Delaware.

Wei D. (2022) “Majority of production shocks for major US crops explained by fluctuations in planted and harvested area”, Oral Presentation, DENIN symposium, University of Delaware.

Wei D., Davis K. F. (2021) “Majority of production shocks for major US crops explained by fluctuations in planted and harvested area”, Oral Presentation, American Geophys. Union Annual Meeting.

Wei D., Davis K. F. (2020) “Dietary Transitions Can Overcome the Nutritional Threat of Increasing CO₂”, Oral Presentation (virtual), American Geophys. Union Annual Meeting, virtual.

ACADEMIC AND PUBLIC SERVICE

2022-Present Senator of the Geography program in the Graduate Student Government, UD

2022-Present Graduate Representative in the Department of Geography, UD

2022 Volunteer for New Graduate Student Orientation, UD

2022-Present EmPOWER Mentor, UD

2022 Panelist for Proposal Writing, UD

2021-Present Inaugural Member, UD Data Science Institute Graduate Student Fellow

2019 Volunteer, DE Coastal Day

2018 Volunteer, The Frontiers in Ecology Evolution & Conservation Symposium (UK)

2018 Volunteer, Graduation Ceremony, Imperial College London (UK)

2015-2017 Volunteer Docent, Shanghai Science and Technology Museum, Shanghai Natural History Museum, and Shanghai Botanical Garden (China)

2014-2017 Team Leader, College Students Volunteer Service in Penglai (China)

MEDIA

2022 Research featured in Planetary Health Alliance Newsletter.

<https://mailchi.mp/harvard/planetary-health-newsletter-january2022>

2022 Research highlighted in: “Culturally Appropriate Food Shifts”, Adam Thomas, UDaily.

<https://www.udel.edu/udaily/2022/january/culturally-appropriate-dietary-food-shifts/>

PROGRAMMING AND COMPUTING SKILLS

R, Python, MATLAB, ArcGIS Pro, QGIS, SPSS, C++, PS, AI, LR, AutoCAD, SketchUp