

## WEN XU

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### EDUCATION

#### Middlebury College

*Expected February 2024*

Candidate for Bachelor of Arts in Psychology with Minor in Computer Science

**GPA:** 3.97/4.0

**Honors thesis:** Raising Risk Perception of Natural Disasters with Concrete Data Visualization

**Relevant coursework:** Cognitive Psychology, Sensation and Perception, Social Psychology, Data Visualization, Data Science Across Disciplines, Machine Learning

### RESEARCH EXPERIENCES

#### Conservation Psychology Lab, Middlebury College, VT

*January 2022-Present*

*Undergraduate Researcher*

- Conducted an independent study on the effect of communicating proximal climate impacts on climate support for individuals with different value orientations. Reviewed literature, designed and ran an online behavioral experiment, analyzed data, and prepared a first-authored manuscript.
- Conduct an honors thesis on raising awareness of natural disaster risks with concrete data visualization designs. Reviewed literature and designed an online experiment.

Principal Investigator: Michelle McCauley, Ph. D.

#### Visual Thinking Lab, Northwestern University, IL

*June 2023-August 2023*

*Research Assistant*

- Developed prototypes for a web-based interactive designer's guide for creating effective dynamic data visualizations using HTML, CSS, JavaScript, and Figma.
- Created interactive visualizations with Tableau to support data analysis for a behavioral experiment on argument visualization and belief change.

Principal Investigator: Steven Franconeri, Ph. D.

#### Child and Baby Lab, Uppsala University, Sweden

*August 2022-December 2022*

*Research Assistant*

- Ran in-person behavioral experiments to examine additive cognitive biases in problem-solving strategies in adults from Sweden and the U.S. Analyzed data and co-authored a manuscript.

Principal Investigator: Joshua C. Juvrud, Ph. D.

#### Vermont Center for Behavioral Science Research on Climate and the Environment, Middlebury College, VT

*June 2022-August 2022*

*Research Assistant*

- Collected and analyzed survey data for two studies on climate attitudes and decision making.
- Reviewed literature on the influence of personal experience of natural disasters on climate beliefs.

Principal Investigators: Michelle McCauley, Ph. D., Julia Berazneva, Ph. D.

#### Institute of Urban Environment, Chinese Academy of Sciences, China

*July 2018-September 2021*

*Research Intern*

- Conducted complex network analysis on international plastic waste trade data and authored a manuscript.
- Modeled the demand and recycling potentials of metal materials for lithium ion batteries of electric vehicles in 90+ cities in China. Reviewed literature, collected data, developed models, and visualized results.

Principal Investigators: Wei-Qiang Chen, Ph. D., Peng Wang, Ph. D.

## LEADERSHIP EXPERIENCES

**Jiezi SpeakGreen**, China

*August 2021-Present*

*Co-founder and Content Writer*

- Co-founded an environmental and science communication initiative that aims to increase connection with nature and encourage pro-environmental lifestyles among young people in Chinese cities.
- Wrote 15+ environmental and science communication articles for the initiative's public social media account, which has 600+ subscribers and received 4 million + views in total.

**EcoDorms**, Middlebury College, VT

*January 2022-May 2022*

*Student Organizer*

- Organized weekly sustainability-themed activities in first-year dorms at Middlebury College with the goal of increasing environmental awareness and building community.
- Wrote weekly posts for an environmental education blog.

## PUBLICATIONS

**Xu, W.**, Chen, W. Q., Jiang, D., Zhang, C., Ma, Z., Ren, Y., & Shi, L. (2020). Evolution of the global polyethylene waste trade system. *Ecosystem Health and Sustainability*, 6(1), 1756925.

Jian, X., Wang, P., Sun, N., **Xu, W.**, Liu, L., Ma, Y., & Chen, W. Q. (2022). Material flow analysis of China's five commodity plastics urges radical waste infrastructure improvement. *Environmental Research: Infrastructure and Sustainability*, 2(2), 025002.

## PRESENTATIONS

**Xu, W.** (2023, April). *Does Self-Enhancement Discount Impacts Here and Now? Psychological Distance, Personal Values, and Climate Action*. Poster presented at the Spring Student Symposium at Middlebury College, Middlebury, VT.

**Xu, W.**, Farrin, S., Ostrow, K. D., Eddy, N., & Sullivan, L. (2022, August). *EcoDorms Intervention 2019-2022*. Poster presented at the Summer Research Symposium at Middlebury College, Middlebury, VT.

Sullivan, L., Eddy, N., Ostrow, K. D., **Xu, W.**, & Farrin, S. (2022, August). *The Effects of Natural Disasters on Impacted Communities: A Case Study of Hurricane Irene*. Poster presented at the Summer Research Symposium at Middlebury College, Middlebury, VT.

## GRANTS AND FELLOWSHIPS

Middlebury College Senior Research Project Supplement (\$800)

2023

Middlebury College Center for Career and Internships Summer Internship Funding Grant (\$2000)

2023

## SKILLS

**Analysis and modeling:** RStudio, MATLAB, Python, SPSS

**Front-end and prototyping:** JavaScript (D3.js, p5.js), HTML, CSS, Figma

**Graphic design:** Adobe Illustrator, Adobe Photoshop