SUZANNE KAWAMLEH

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EDUCATION

2023   PhD in Philosophy, Indiana University (expected)
Dissertation: "In Models We Trust: The Epistemology and Ethics of
Computational Science for Decision Making"
Dissertation Chairs: Gary Ebbs and Elisabeth Lloyd
Committee Members: Kirk Ludwig, Jutta Schickore, Greg Lusk

2017   MA in Philosophy, Indiana University
MA in History and Philosophy of Science, Indiana University

2014   BA (Hon) in Philosophy & Chemistry, Valparaiso University,

RESEARCH AREAS

AOS   Philosophy of Technology & AI, Applied Ethics (Environmental & Medical)

AOC   History and Philosophy of Science and Medicine, Logic, Epistemology

PUBLICATIONS

Peer-Reviewed Articles

2022   Kawamleh, Suzanne. "Against Explainability Requirements for Ethical Artificial
Intelligence in Health Care." *AI and Ethics* (2022): 1-16

2022   Kawamleh, Suzanne. "Confirming (climate) change: a dynamical account of model
evaluation." *Synthese* 200, no. 2 (2022): 1-26.

2021   Kawamleh, Suzanne. "Can machines learn how clouds work? The epistemic
implications of machine learning methods in climate science." *Philosophy of Science*
88, no. 5 (2021): 1008-1020.

Under Review

(1) Kawamleh, Suzanne. "Machine Evidence and Fairness in Judicial Decision-Making" Submitted to: Philosophy and Technology.

(2) "Artificial Tradeoffs in Artificial Intelligence: Prediction and Explanation in Medical AI" Submitted to: Philosophy of Science.

In Preparation

(1) "Algorithmic Reparations for Healthcare Disparities"

Public Engagement

2021 "Comprehensive Climate Action Plan", Office of Sustainability and Environmental Affairs, City of Gary, IN.

2017 Kawamleh, Suzanne. "Philosophy Phriday: Ants and NGOs." *The Daily Ant* (blog), August 4, 2017. https://dailyant.com/2017/08/04/philosophy-phriday-ants-and-ngos/.

HONORS AND AWARDS

2022 College of Arts and Sciences Dissertation Completion Fellowship ($25,000)

2021 Collins LLC Teaching Award
Every semester, students at the Collins Living Learning Center nominate an instructor to receive special recognition as the recipient of a Collins LLC Teaching Award. This award was received for designing and teaching a new course: Philosophy, Literature and Climate Change

2020 James M. and Anthony J. Moss Dissertation Fellowship ($17,000)

2020 Oscar Ewing Essay Prize

2019 Herman B. Wells Graduate Fellowship ($42,000)
The fellowship is awarded each year to one student who demonstrates the qualities for which Chancellor Wells was renowned: leadership abilities, academic excellence, character, social consciousness, and generosity of spirit. The Wells Fellowship is the University's most prestigious academic award.

2017 John H. Edwards Fellowship ($25,000)

The fellowship is awarded to a student with an extraordinary record of voluntary public service, exemplary character, superior scholastic ability, and intellectual capacity that promises dividends for society.

2017   Clark Outstanding Associate Instructor Award
The Bo and Lynn Clark Outstanding AI award is based on faculty nominations, student evaluations, and classroom observations. The award is intended to recognize outstanding contributions to the department's teaching mission by an Associate Instructor.

2014   Phi Beta Kappa, National Academic Honor Society

2013   John & Dorothea Helms Endowed Scholarship in (Latin), Greek and Roman Studies Program, Valparaiso University

2010   Presidential Scholar, Academic Excellence Scholarship ($80,000), Valparaiso University

RESEARCH EXPERIENCE

2021   Richard Rufus Project, Assistant to Prof. Rega Wood

I use Python programs to prepare the rediscovered Latin manuscripts of medieval philosopher, Richard Rufus, for latent semantic analysis. This includes cleaning, stripping, and lemmatizing the files (reducing declined/conjugated Latin words to their roots, or *lemmas*) as well as building a dictionary of terms and their respective lemmas, or roots. Our goal is to be able to use mathematical analysis to determine which passages have the most shared vocabulary and thus facilitate the discovery of parallel text across different manuscripts.

TEACHING EXPERIENCE

Primary Instructor at Indiana University

2021   Philosophy, Literature and Climate Change
Designed interactive course for the Collins Living-Learning Center. Students explain and predict water flow in a local body of water using different theories of hydrology (water cycle). The course begins with Aristotle's theory of the flooding of the Nile and ends with students' engagement in contemporary scientific modeling using IU's FutureWater simulation.

2021	Applied Ethics (Online)
	Designed Intensive Writing course focused on environmental ethics, specifically individual vs. collective responsibility for climate change. Dedicated sessions on environmental racism and ethical consumption.

2018	Business & Morality
	Designed Business Ethics through Film course for non-philosophy majors. Focused on questions of personal vs. collective responsibility. Students adopted perspective of individuals involved in Enron scandal to ethically justify or raise objections to popular ethical theories.

Primary Instructor at Butler University

2019	Principles of Reasoning, 2 sections
	Designed introductory logic course centered on applying logical analysis to law. Students asked to identify arguments in justices' legal opinions (Roe v. Wade), translate one argument into symbolic form, evaluate the soundness and validity of the argument using rules of propositional logic, and describe one counterexample to the argument.

Associate Instructor at Indiana University

2022	Philosophical Methods and Writing
2017	Introduction to Ethics
2016	Elementary Logic
2016	Introduction to Philosophy
2015	Critical Thinking

PRESENTATIONS AND INVITED LECTURES

Select Peer-refereed Presentations

2022   "Artificial Tradeoffs in Artificial Intelligence," *The 28th Biennial Meeting of the Philosophy of Science Association*, Pittsburgh PA, November 10-13th

2021   *"Can machines learn how clouds work?* The Epistemic Implications of Machine Learning Methods in Climate Science," *The 27th Biennial Meeting of the Philosophy of Science Association*, Baltimore MD, November 12th

2021   "The (Climate) Data Revolution: How Machine Learning Methods Impact Climate Model Uncertainty Assessment," *PSX6: Philosophy of Scientific Experimentation 6*, online, October 15th

2020   "Can Machines Learn Convection? The epistemic implications of machine-learning parameterizations in climate science," *Data Science in Climate and Climate Impact Research: Conceptual Issues, Challenges, and Opportunities*, online, August 20th

2019   "Interpreting Multi-Model Agreement for Uncertainty Interpretation," *American Geophysical Union*, San Francisco, CA, December 13th

2019   "Credibility & Confidence in Climate Science," *Indiana University HPSC&M Women's Leadership Conference*, Bloomington IN, October 26th

2013   "*Who Would Jesus Kill?* Just War Theory in the Christian Tradition," *National Conference on Undergraduate Research*, Lacrosse, WI, April 12th

Select Invited Presentations

2020   "In Models We Trust: Climate Models and Their Evaluation," *Community Colloquium*, Valparaiso University, Valparaiso IN, January 23rd

2018   "Rebuilding Campus: The promise of higher education in war-torn Syria," *TEDxValparaisoUniversity*, Valparaiso IN, January 19th

2017   "Islamic Hadith: Epistemology & the Quest for Authenticity," Hope College, *Philosophy Department Symposium*, Holland MI, November 16th,

2017   "Grassroots Model of Higher Education in Syria", *Syrian American Medical Society 4th Annual Symposium*, NYC New York, October 7th

Select Comments

2021   "Comments on: The Fate of Tensor-Vector-Scalar Modified Gravity," *Indiana Philosophical Association*, online, November 13th

2020   "Comments on: Why and how explanations matter: connecting moral and technical dimensions of algorithmic decision-making," *Athena in Action: A Networking and Mentoring Workshop for Graduate Women in Philosophy*, online, June 17th

2020   "Comments on: Virtues, Values, and Counterfactuals in Science," *American Philosophical Association*, Chicago, IL, February 28th

Keynote Address

2019   "Revisiting C.S. Lewis' *Learning in Wartime,*" *Phi Beta Kappa Induction Ceremony*, Valparaiso University, May 17th

PROFESSIONAL EXPERIENCE

2022   Climate Fellow, Technical and Environmental Systems, Cummins, Inc. *I developed a comprehensive set of Environmental Justice (EJ) Principles and Corporate Policy for Cummins Inc. I conducted a tools analysis and created a Pugh Matrix for EJ screening tools at the federal and state level. I provided data-driven analyses of current vulnerabilities, challenges, and opportunities for environmental justice strategies in communities near Cummins facilities and operations.*

2021   Climate Fellow, Office of Sustainability and Environmental Affairs, City of Gary

 I prepared a comprehensive Climate Action Plan for the City of Gary. I provided data-driven analyses of current vulnerabilities, challenges, and opportunities for mitigation and adaptation strategies across sectors (e.g., transportation, built environment, public health). I gave evidence-based policy recommendations for reducing greenhouse gas emissions through measures that simultaneously promote environmental and economic justice.

COMMUNITY SERVICE

2015-   Education Program Director, Promise for Relief and Human Development

 As Educational Program Director for PRHD, I work to provide higher educational opportunities to internally displaced populations and to establish sustainable institutions of higher education in various provinces of war-torn Syria.

Grants

2018   I proposed and secured a grant from the Syrian American Engineers Association to establish an electrical engineering laboratory for our students in Nawa, Daraa. This laboratory provides engineering students with the facilities and supplies to carry out experiments, prepare sketches, and test different designs.

2016   I secured a grant from and partnered with Valparaiso University and Syrian American Medical Society to establish Hope Underground, a 2-year Medical Training Institute in Ghouta, Syria that equips students with the scientific and technical skills to address the shortage of medical personnel in local field hospitals and clinics.

Mentorship

2017   I mentored 25 Syrian students through the application process and coursework at the accredited nonprofit online university, University of the People.

Leadership

2017   I served as the PRHD representative and Higher Education Advocate at the American Forum for Syria Policy in Washington DC.

2017   I served as the Higher Education representative for Free Syria Political Action Committee. In that role, I acted as a liaison between 15+ US non-profit organizations and the Qatar Fund for Development.

2015   I managed Promise College's curriculum development in accordance with the Syrian Ministry of Higher Education and in collaboration with the University of Aleppo.

2015   I led and managed a diverse team of grassroots activists, philanthropists, higher education leaders, and community members to establish Promise College in southern Syrian which serves ~2000 students in a variety of disciplines

PROFESSIONAL AFFILIATIONS

2019-Present	American Geophysical Union
2017-Present	Philosophy of Science Association
2017-Present	American Philosophical Association

LANGUAGES

English: Native Language
Arabic: Native Language
Latin: Intermediate Reading and Writing
Ancient Greek: Intermediate Reading and Writing **French:**
Novice Listener

REFERENCES

Dr. Gary Ebbs, Professor of Philosophy
Indiana University gebbs@indiana.edu

Dr. Elisabeth Lloyd, Distinguished Professor Emerita of History and Philosophy of Science and Medicine Indiana University ealloyd@indiana.edu ealloyd@gmail.com

Dr. Eric Winsberg, Professor of Philosophy
University of South Florida winsberg@usf.edu

Dr. Jutta Schickore, Ruth N. Halls Professor of History and Philosophy of Science and Medicine
Indiana University jschicko@indiana.edu

Dr. Matthew Adams, Assistant Professor of Philosophy
Indiana University mra10@iu.edu

Dr. Rega Wood, Professor of Philosophy, Emerita Stanford
University and Indiana University
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