CURRICULUM VITAE JUNE 2023

DAN LI

Areas of Specialty: philosophy of science (climate science, machine learning, network science)

Areas of Competence: feminism, general philosophy of science, history of science

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EMPLOYMENT

2023 Fall Assistant professor in Philosophy

Baruch College, CUNY

EDUCATION

2023 Dual Ph.D.

Indiana University (Bloomington, IN)

Dept. of History and Philosophy of Science (Major: Philosophy of Science);

Dept. of Informatics (Major: Complex Networks and Systems);

Dept. of Earth and Atmospheric Sciences (Minor: Earth and Atmospheric Sciences)

Joint Dissertation: "Frontiers in Climate Science: inquiries into data and methods"

Committee: Elisabeth Lloyd (HPS); Amit Hagar (HPS); Ben Kravitz (EAS); Travis O'Brien (EAS); Alessandro Flammini (CNS); Filippo Radicchi (CNS)

2018 M.S. Peking University (Beijing, China)

Dept. of Philosophy (Major: History of Science)

2014 B.Eng. University of Science and Technology of China (Hefei, China) School of Mechanical Engineering (Major: Thermal Science and Energy Engineering)

PUBLICATIONS

Journal Papers Published

2023 Machines learn better with better data ontology. *Minds & Machines*. In press.

If a tree grows no ring and no one is around: how scientists deal with missing tree rings. <u>Climatic Change</u> 174, 6. DOI: <u>10.1007/s10584-022-03424-w</u>

O'Loughlin, R., <u>Li, D.</u> Model robustness in economics: the admissibility and evaluation of tractability assumptions. <u>Synthese</u>, **200**, 23. DOI: <u>10.1007/s11229-022-03608-y</u>

HONORS AND AWARDS

2022 <u>Mikal Lynn Sousa Award for Excellence in Graduate Scholarship</u>
 2021 <u>Norwood Russell Hanson Prize for Outstanding Grad Student Papers</u>

GRANTS AND FELLOWSHIPS

2021-22 B.E. Covalt Memorial Fellowship
2020-22 COAS NSF Interdisciplinary Research Training Fellowship
Informatics Graduate Support Fellowship & Travel Award
2019-20 Irving & Leno Lo Scholarship
2018-19 COAS Graduate Scholars Fellowship & Travel Award

REFEREED PRESENTATIONS (*CONTRIBUTED; **POSTERS)

*- and O'Loughlin, R., "Tractability Assumptions, Holism, and Model Robustness," Philosophy of Science Association 27th Biennial Meeting (2020/2021), Nov. 11-14, 2021, PAPERID-PSA2020668.

"Some Models are Universal and Rare: does "universality" make a difference?," The 8th Biennial meeting of the European Philosophy of Science Association, Sept. 15-18, 2021

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- ** "The Missing Link in Inferences with Climate Networks", Philosophy of Science Association 27th Biennial Meeting (2020/2021), Nov. 11-14, 2021, PAPERID-PSA20201062.
- ** "If A Tree Grows No Rings and No One is Around: how scientists deal with missing tree rings," Philosophy of Science Association 27th Biennial Meeting (2020/2021), Nov. 11-14, 2021, PAPERID-PSA2020956. [video abstract]
- *"Can We Infer the Absolute Timescale from Paleoclimate data? –lessons from paleoclimatology," (with Ryan O'Loughlin), Boston University Philosophy Grad Conference, April 22nd-23rd, 2021. Held virtually.
- and O'Loughlin, R., "Tractability Assumptions, Holism, and Model Robustness," IU HPSC Women's Leadership Conference, October 26th, 2019. [recording]
- 2017 "The Medicalization of Premenstrual Syndrome," 9th Meeting of International Society for the History of Medicine, September 2017.

INVITED TALKS

- 2023 "Machines learn better with better data ontology"
 - Philosophy Department, University of Oregon, Jan. 17
 - Philosophy Department, University at Albany, SUNY, March 14
- 2021 "The case of the missing tree ring hypothesis," Norwood Russell Hanson Prize for Outstanding Graduate Student Papers (History and Philosophy of Science and Medicine colloquium, Indiana University) Nov. 7
 - "What does philosophy have to do with machine learning in climate science?" (iDEAS seminar, Earth and Atmospheric Sciences Seminar Series, Indiana University) Sept. 20

TEACHING EXPERIENCE

Teaching Interest: philosophy of climate science, big data, values in science, feminism

- 2023 SP PHIL 101 Introduction to Philosophy (Queens College, CUNY, instructor of record)
- 2019-20 HPSC 200 Scientific Reasoning (Indiana University, instructor of record; TA)
- 2015-17 PHIL 306 History of Science (Peking University, TA)

WORK EXPERIENCE

2021 **Indiana University**, Bloomington

Data Analyst (Institute for Digital Arts & Humanities)

PROFESSIONAL TRAINING

- Visiting Student to National Center of Atmospheric Research (NCAR, CO)
- 2019 Philosophy & Physical Computing 2019 Summer Workshop (VA)

PROFESSIONAL SERVICE

Diversity Committee Graduate Member (IU HPSC)

Graduate conference Co-Organizer (IU HPSC Women's Leadership Conference, Oct. 26, 2019)

COMMUNITY SERVICE

Indiana University's Sciencefest (2017, 2018)

Virginia Tech's Robot Scientist (2019)

LANGUAGES

Chinese: Native; English: Fluent

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TECH SKILLS

Programming: Python (with a passion for data visualization; familiar packages include Numpy,

Pandas, Networkx, Matplotlib)

Platform: AutoCAD

OTHER

Fan of forensic science. Constantly amazed by the variety of evidence employed in solving murders—methodological pluralism rocks!