

Christopher ChoGlueck

Curriculum Vitae

3/18/20

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EMPLOYMENT

New Mexico Institute of Mining and Technology

Assistant Professor of Ethics

Department of Communication, Liberal Arts, and Social Sciences (CLASS), starting August 2019.

EDUCATION

Indiana University, Bloomington

Ph.D. History and Philosophy of Science, Gender Studies minor, June 2019.

M.A. History and Philosophy of Science, Dec. 2016.

University of Notre Dame

B.S. Environmental Science, Philosophy major, May 2014.

SCHOLARLY INTERESTS

Areas of Specialization: philosophy of science (incl. medicine), biomedical ethics, feminism

Areas of Competence: ethics in computer science, science & technology policy

Research Topics: regulatory science, pharmaceutical drugs, reproductive health, environmental health

PUBLICATIONS

Peer-reviewed Articles

- 2019 ChoGlueck, C. "Broadening the Scope of Our Understanding of Mechanisms: Lessons from the History of the Morning-After Pill." *Synthese*. <https://doi.org/10.1007/s11229-019-02201-0>. [Full text]
- 2018 ChoGlueck, C. "The Error Is in the Gap: Synthesizing Accounts for Societal Values in Science." *Philosophy of Science*. 85(4): 704-725. <https://doi.org/10.1086/699191>. [Full text]
- 2017 Shrader-Frechette, K., & ChoGlueck, C. "Pesticides, Neurodevelopmental Disagreement, and Bradford Hill's Guidelines." *Accountability in Research*. 24(1): 30-42. <https://doi.org/10.1080/08989621.2016.1203786>. [Full text]

Public Scholarship

- 2019 ChoGlueck, C. "Hysterical Housewives, Radical Feminists, and The Pill." *Lady Science*. 54. [Available online]

GRANTS & AWARDS

- 2016—2019 Graduate Research Fellowship, National Science Foundation (NSF grant no. 1342962).
- 2019 Victor E. Thoren Graduate Student Research Fellowship, the Department of History and Philosophy of Science and Medicine, Indiana University.
- 2018 Travel Support Grant, National Science Foundation & History of Science Society.
- 2017 Travel Support Grant, National Science Foundation & International Society for History, Philosophy and Social Studies of Biology.
- 2016 Jesse Fine Fellowship, the Poynter Center for the Study of Ethics and American Institutions, Indiana University.
- 2016 Norwood Russell Hanson Prize, the Department of History and Philosophy of Science and Medicine, Indiana University.

INVITED TALKS

- 2019 “Keeping Women Ignorant & On the Pill: The Relationship Between Medical Information & Social Justice.” Indiana University South Bend, Public Forum for the Women's and Gender Studies Program. South Bend, IN. February 1.
- 2018 “Drug Information & Injustice: Lessons about Informed Consent from the History of the Pill.” University of Notre Dame, History and Philosophy of Science Colloquium Series. Notre Dame, IN. October 23.
- 2017 “The Error’s in the Gap: Synthesizing Accounts for Values in Scientific Reasoning.” Norwood Russell Hanson Prize Lecture, Indiana University, Dept. History and Philosophy of Science and Medicine. Bloomington, IN. February 2.

CONFERENCE PRESENTATIONS

Papers Presented (refereed)

- 2020 “Is Helen Longino even an Empiricist? Understanding Contextual Empiricism within Feminist Empiricism,” co-authored with Elisabeth Lloyd. Accepted for the meeting of the Society for Philosophy of Science in Practice, East Lansing, MI. July.
- 2020 “Male Birth Control and Double Standards: Demarcating Values in Biomedical Research.” Accepted for the conference Conceptual and Methodological Aspects of Biomedical Research. Prague. June.
- 2020 “Sexist Values and Epistemic Injustice in Medicine: The Case of the Morning-After Pill’s Drug Label.” Philosophy, Politics, and Economics Society. Panel on Epistemic Injustice and Healthcare. New Orleans, LA. March 13 [Cancelled, Coronavirus].
- 2019 “The Long Road to Revising the Pregnancy Labels: Fetal-centrism and a Feminist Success Story at the FDA.” Values in Medicine, Science, and Technology Conference. Richardson, TX. May 23.
- 2018 “What After the Morning-After Pill? Values, Patriarchy, and Epistemic Injustice in Medicine.” Philosophy of Science Association. Contributed Papers on Epistemic Injustice in Science. Seattle, WA. November 2.

- 2018 “‘You are prejudicing your own case’: Women as Experts, Users, and Disturbances at the 1970 Nelson Hearings on the Pill.” History of Science Society. Special Presidential Flashtalk Session. Seattle, WA. November 2.
- 2018 “What After the Morning-After Pill? Values, Paternalism, and Epistemic Injustice.” Consortium for Socially Relevant Philosophy of/in Science and Engineering. Atlanta, GA. June 6.
- 2018 “Drug Facts and Value-laden Labels: The Pill, Informed Consent, and the FDA’s New Patient Inserts.” Values in Medicine, Science, and Technology Conference. Session on Dissertation in Progress. Richardson, TX. May 19.
- 2017 “Why ‘How It Works’ Has Mattered: The Values of Knowing the Morning-After Pill’s Mechanism.” International Society for History, Philosophy and Social Studies of Biology. Symposium on Contraceptive Controversies: Perspectives on Birth Control. Sao Paulo, Brazil. July 18.
- 2016 “What After the Morning After Pill? Values in the Science and Regulation of Contraception.” Society of the Philosophy of Science in Practice. Glassglow, NJ. June 18.
- 2015 “Academia and the Pesticide Industry: The Case of Neurodevelopmental Disagreement.” The Collaboration Conundrum: Special Interests and Scientific Research. Notre Dame, IN. Nov. 6.

Posters Presented

- 2016 “Drug Facts and Value-Laden Labels: Contraceptive Controversy at the FDA.” Philosophy of Science Association. Atlanta, GA. Nov. 4. *Refereed.
- 2014 “Protecting At-risk People and Consulting for Federal Agencies: Childhood Pesticide Harms and EPA Weight-of-Evidence.” With K. Shrader-Frechette. Session on Socially Engaged Philosophy of Science. Philosophy of Science Association. Chicago, IL. Nov. 6. *Invited.

TEACHING EXPERIENCE

Instructor (New Mexico Tech)

- 2020 Ethics in Science and Engineering. Introductory level, x2. Fall.
 Philosophy of Bioethics. Intermediate level. Fall.
 Ethics in Science and Engineering. Introductory level. Spring.
 Ethics of Computing and Information Technologies. Intermediate level, x2. Spring.
- 2019 Ethics in Science and Engineering. Introductory level. Fall.
 Philosophy of Bioethics. Intermediate level. Fall.
 Directed readings in ethics of computer science. Fall.

Associate Instructor (Indiana University, Bloomington)

- 2015 Evolution of the Modern University, with Prof. James Capshew. College of Arts and Sciences core course. Introductory level. Spring.
- 2014 Evolution, Creationism, and Society, with Prof. Elisabeth Lloyd. College of Arts and Sciences core course. Introductory level. Fall.

RESEARCH EXPERIENCE

2015—2016 Research Assistant to Dr. Elisabeth Lloyd, Indiana University Bloomington.

INSTITUTIONAL SERVICE

New Mexico Tech

Developed Minor in Philosophy and advising students
Running speaking series on Ethics & Leadership
Co-developing new MS in Communication, Design, and Public Engagement
Member of Diversity, Equity, & Inclusion Committee
Co-developing new BA/BS Major in Science, Technology, and Policy
Consulting on Creative Practice minor

Indiana University, Bloomington

Chair (President), IU HPS Graduate Student Association. May 2016 to May 2017.
Climate committee member, IU HPS Graduate Student Association. 2017 to 2019.

PROFESSIONAL SERVICE & AFFILIATIONS

Conference planning

Program committee, 9th Annual Values in Medicine, Science, and Technology Conference,
University of Texas. Dallas, TX. May 23-25, 2019.
Program committee, 3rd IU Graduate Student Conference on History and Philosophy of Science
and Medicine. Bloomington, IN. March 29-30, 2019.
Committee member, 1st IU Graduate Student Conference on History and Philosophy of Science
and Medicine. Bloomington, IN. March 11-12, 2016.

External peer reviewing

Endeavor (2)
History and Philosophy of the Life Sciences (1)
Philosophy of Science (2)
Synthese (2)

Regular reviewer

connexions in international professional communication & design

Member

Consortium for Socially Relevant Philosophy of/in Science and Engineering
International Society for the History, Philosophy, and Social Studies of Biology
International Philosophy of Medicine Roundtable
Philosophy of Science Association

COMMUNITY INVOLVEMENT & OUTREACH

Instruction

Volunteer instructor for diversity and inclusion workshops for [InterAction Initiative, Inc.](#) with local college students. South Bend, IN. 2017 to 2019.

Science/Philosophy Communication

Copy-editor, peer reviewer, and writer for ScIU science communication blog (<http://blogs.iu.edu/sciu/author/cglueck/>). 2017 to 2019.

2019 “Can science be value-free? The ‘gap’ argument.” [ScIU Blog](#). May 5.

2019 “Deceiving with doubt: How industry denies scientific evidence on the dangers of pesticides.” [ScIU Blog](#). March 19.

2018 “Joining science to liberal arts: The many ways of doing history and philosophy of science.” [ScIU Blog](#). November 6.

2018 “Sexual science: An interview with Justin Garcia.” [ScIU Blog](#). May 29.

2017 “The process of science and politics and the risks to education.” With Briana Whitaker. [ScIU Blog](#). December 19.

2017 “What are scientific facts?” [ScIU Blog](#). October 31.

2017 “Science or politics? Reclaiming climate science for the people.” [ScIU Blog](#). April 22.

Interviews

“¿Debo tomar la píldora [Should I take the pill]?” Emiliana Pariente. *Paula* [Chilean based magazine]. August 9, 2019. <https://www.paula.cl/genero/debo-tomar-la-pildora-3/>

DISSERTATION SUMMARY

Title: *Drug Labels and Reproductive Health: How Values and Gender Norms Shape Regulatory Science at the FDA*

<http://hdl.handle.net/2022/23195>

The US Food and Drug Administration (FDA) is fraught with controversies over the role of values and politics in regulatory science, especially with drugs in the realm of reproductive health. Philosophers and science studies scholars have investigated the ways in which social context shapes medical knowledge through value judgments, and feminist scholars and activists have criticized sexism and injustice in reproductive medicine. Nonetheless, there has been no systematic study of values and gender norms in FDA drug regulation.

I focus on three questions about values in regulatory science. First, how have societal values and gender norms shaped the way that the FDA regulates drugs in the realm of reproductive health, specifically with drug labels? Second, what are the ethical, epistemic, and social consequences of these influences on regulation for women and other marginalized groups? Third, which societal values and gender norms ought to influence drug regulation about reproductive health, and how ought this happen? Integrating philosophical analysis with historical archival research and in-depth interviews, I conduct three case studies of drug labeling about reproductive health: (1) the “drug fact” about the mechanism of the morning-after pill; (2) the package inserts for patients about the health risks of oral contraceptives; and (3) the special physician labels made for prescribing drugs to pregnant women.

I identify three challenges for the FDA and suggest ways to reduce the influence of sexist values and facilitate feminist alternatives. First, across these cases, I have found that there are

many ways in which other concerns in reproductive medicine (such as zygotic life, fetal health, and population control) have devalued women's health. Second, both knowledge and ignorance about their reproductive health have contributed to women's oppression, especially poor women and women of color. Finally, by avoiding the epistemic dimensions of ethics, powerful, mostly male parties in medicine (such as doctors, pharmaceutical companies, and religious institutions) have misused "informed consent," "religious freedom," and "paternalism" for unethical purposes. For improvement, I suggest extracting sexist values and gender norms from regulatory science that cause epistemic injustices, and I point to success stories for reforming sexism with feminism at the FDA.