KATHLEEN CREEL

ADDRESS

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CONTACT INFORMATION

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EDUCATION

University of Pittsburgh, Pittsburgh, PA
PhD in History and Philosophy of Science, expected 2021.

Simon Fraser University, Burnaby, BC
Masters in Philosophy, April 2015.

Williams College, Williamstown, MA
Bachelor of Arts in Computer Science and in Philosophy, June 2010.

AREAS OF SPECIALIZATION

Philosophy of Science, Philosophy of Machine Learning, Ethics of Technology

AREAS OF COMPETENCE

Early Modern History of Philosophy, Bioethics, Metaphysics, Epistemology

PUBLICATIONS

forthcoming, *Philosophy of Science,* "Transparency in Complex Computational Systems"

CONFERENCE PRESENTATIONS

Canadian Society for Epistemology, Montreal — November 2019
"Anti-Reductionist Machine Testimony"

Hermetica in Late Antiquity Workshop, Oslo — August 2019
"The One and the Sun: Emanation and Hermetism in Plotinus"

Cognitive Science, Montreal — July 2019
Panel presentation in "What Makes a Good Explanation? Cognitive Dimensions of Explaining Intelligent Machines"

ISHPSSB, Oslo — July 2019
"Noise in a Noisy World: Finding Metagenomic Patterns"

Pacific APA, Vancouver — April 2019
"Early Modern Correspondences"

Pacific APA, Vancouver — April 2019
"Demystifying Publishing Together: A Twelve Week Intensive Graduate Workshop"

Central APA, Denver — February 2019
"What's the Signal?: The Signal-Noise Distinction and the Detection of Scientific Phenomena"

SAS IV: Epistemic opacity in Computer Simulation & ML, Stuttgart — November 2018
"Three Forms of Transparency in Scientific Machine Learning"

History of Philosophy of Science (HOPOS), Groningen, NL   July 2018
""There must be a Tub to Amuse the Whale": Joseph Black's Methodology Reconsidered"

Society for Philosophy of Science in Practice (SPSP), Ghent   June 2018
"Explainable AI"

Machine Learning Workshop, Irvine, CA   March 2018
"Machine Learning and Transparency"

Models and Simulations 8 (MS8), Columbia, SC   March 2018
"Transparency in Complex Computational Systems"

Newberry Library Multi-Disciplinary Conference, Chicago   January 2018
"Malebranche, Monsters, and the Maternal Imagination"

Philosophical Perspectives on Data-Intensive Science, Hannover   October 2017
"Transparency in Complex Computational Systems"

Canadian Society for HPS, Ryerson University   May 2017
"Incompressible Patterns: CRISPR vs. Dennett"

Philosophy of Scientific Experimentation (PSX4), Pittsburgh   April 2014
"Machine Learning as Experiment"

INVITED COMMENTARY

Central APA , Chicago   February 2020
Invited comment on "Really Real Patterns," Tyler Millhouse

Ethics of Technology At Work & in Public Institutions, Harvard   Jan. 2020
Invited comment on "The Hidden Assumptions Behind Counterfactual Explanations
& Principal Reasons," Barocas, Selbst, & Raghavan

Ethics of Algorithmic Decision-Making in Democratic Institutions   Nov. 2019
Invited comment at Princeton on "Power, Process, and Automated Decision-Making," Ari Waldman

Pacific APA, San Diego, CA   March 2018
Invited Comment on "Prediction in Science: How Big Data Does - and Doesn't - Help," Robert Northcott

Will Science Remain Human?, Rome   March 2018
Invited comment on panel of Paul Humphreys, Eric Winsberg, Emanuele Ratti

Pittsburgh-CMU Graduate Conference   March 2017
Invited Comment on "Problems for counterfacutal accounts of causation by omission," Sebastian Murgueitio

RELEVANT WORK EXPERIENCE

Research Assistant	Simon Fraser University	Sept. 2011 - April 2015

Research Assistant to Dr. Holly Andersen, SSHRC Project on Causation. Researched and presented materials on information theory, pattern ontology, literature on causation. Spring & fall 2012, summer 2014.
Research assistant to Dr. Lisa Shapiro, summer 2013. Graduate fellowship spring 2014.

Software Engineer	MIT Lincoln Laboratory	July 2010 - August 2011

Applied research on next generation secure satellite systems. Development team for the Advanced Extremely High Frequency (AEHF) constellation and ground control terminals.

Artificial Intelligence Research	University of Tennessee, Knoxville	Summer 2009

Wrote a control architecture for heterogeneous robot teams working with humans to perform tasks in an unknown environment as part of a research internship in Dr. Lynne Parker's Robotics and Distributed Intelligence Lab.

TEACHING

Instructor	University of Pittsburgh	Spring 2019

Instructor of record for *Problem Solving: How Science Works*.

Instructor	University of Pittsburgh	Fall 2018

Instructor of record for *Magic, Medicine, and Science*.

Instructor	University of Pittsburgh	Spring 2017

Instructor of record for *Morality and Medicine*.

Teaching Assistant	University of Pittsburgh	Fall 2016

Teaching assistant for *Philosophy of Science*.

Teaching Assistant	Simon Fraser University	September 2011 - April 2015

Teaching assistant for *Introduction to Moral Philosophy, Introduction to Metaphysics and Epistemology, and Critical Thinking*. Taught three discussion sections per semester.

Teaching Assistant	Williams College	Fall 2007 - Spring 2010

Teaching assistant for *Introduction to Computer Science* (Fall 2007 - Fall 2010) and *Introduction to Moral Philosophy* (Spring 2010).

SERVICE

Reviewer for *Philosophy of Science* (x6), *British Journal of Philosophy of Science (x2)* , *Dialogue*

Graduate Representative, elected, 2019-2020

Founder, *Graduate Publication Workshop*, 2019-2020

Award Committee and Judge for Elizabeth Baranger Teaching Award competition, 2018

Teaching Representative, elected, 2018

Organizer of Work In Progress Talks, elected, 2016

AWARDS

Elizabeth Baranger Teaching Award, University of Pittsburgh, Honorable Mention, 2019

APA Travel Grant, 2019

HOPOS Syllabus Competition Winner, 2018

Newberry Travel Grant, 2018

Wesley Salmon Fund Travel Award, Fall 2017, Spring 2018

NSF Scholarship to Grace Hopper Conference for Women in Computing, 2009

Williams College Class of 1960's Scholar, 2006 - 2007

National Merit Scholar, 2005

COURSEWORK

University of Pittsburgh

Philosophy of Science:
Philosophy of Science, Models & Modeling, Extended Evolutionary Synthesis,*
Experimental Practice, Cognitive Science, Systems Neuroscience,
Incommensurability, Causal Cognition, Realism.

Metaphysics and Epistemology:
Metaphysics of Relations,* Metaphysics of Grounding,
Epistemology of Disagreement and Higher Order Evidence,
Science and Metaphysics, Laws of Nature.

History of Science and History of Philosophy:
History of Life Sciences, History of Physics,
Aristotle's Biology, Teleology,
Philosophy of Late Antiquity

Simon Fraser University

Philosophy of Science, Logic, and Language:
Scientific Explanation, Philosophy and Psychology of Language,
Topics in Logic: Hartry Field, Metaphysics & Philosophy of Science, Causation.*

Philosophy of Mind:
Appearances, Neurophilosophy

History of Philosophy:
Descartes on Human Nature, Hume's Ethics,
Topics in 17th & 18th Century: Pleasure,* Kant's Critique of Pure Reason.*

Metaethics and Ethics:
Contemporary Metaethics, Topics in Metaethics: Normativity,
Methodology: Intuitions, History of Ethics,* Moral Psychology.*