

# Andrew Bollhagen

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## Education

Expected 2022 *Ph.D. Philosophy* University of California, San Diego

2016 *Master of Arts, Philosophy*, California State University Long Beach

2009 *Bachelor of Arts, Philosophy*, University of California Irvine

## Academic Interests

**Areas of Specialization:** General Philosophy of Science, Philosophy of Science-in-Practice, Philosophy of Cell Biology

**Areas of Competence:** Philosophy of Neuroscience, Philosophy of Cognitive Science

## Awards & Honors

2020 Issac Levi Prize (Journal of Philosophy)

2019 Interdisciplinary Research Grant (Future of Mind Research Group UCSD)

2019 NSF Travel Grant

2018 Graduate Travel Award (Southern Society for Philosophy and Psychology)

2017 SEED Fellowship (UCSD)

2015 Graduate Honors in Philosophy (CSULB)

2015 Distinguished Graduate Award (CSULB)

2015 Graduate Assistantship, *PHIL100: Introduction to Philosophy* for Dr. Lawrence Nolan

2014 Graduate Tutorialship, *PHIL170: Critical Reasoning* for Philosophy Department (CSULB)

2014 Scholarship, CSULB Associated Students Inc.

## Publications:

2021 “Hempel’s Raven Revisited.” *Journal of Philosophy* (Issac Levi Prize winner).

2021 “Active Biological Mechanisms: Transforming Energy into Motion in Molecular Motors” (with William Bechtel) *Synthese*.

2021 “The Inchworm Episode: Reconstituting the Phenomenon of Kinesin Motility.” *European Journal of the Philosophy of Science*.

2021 “Reconstituting Phenomena” in Cartwright, Nancy (Forthcoming). *A Philosopher Looks at Science*. Cambridge University Press.

2019 “Philosophy of Cell Biology.” (with William Bechtel) *The Stanford Encyclopedia of Philosophy*.

2017 “A Call for External Validity in Decision-Neuroscience: Review of *Decision Making Experiments Under Philosophical Analysis: Human Choice as a Challenge for Neuroscience*. (Co-authored with John Bickle). [Science & Education](#) volume 26, pages 429–433.

In progress:

“Mechanisms Under Control” (with William Bechtel). *Biology and Philosophy* (under review).

“From Model to Measurement: *In Vitro* Reconstitution of Myosin Action on Actin  
“Detecting vs. Characterizing Phenomena.”  
“Minds, Markers, and Mechanisms.”  
“A ‘Deep Diagnosis’ of the Problem of Particularity”

## Conference Activities

### *Presentations*

- 2021 “The Inchworm Episode: Reconstituting the Phenomenon of Kinesin Motility.” PSA, Baltimore, MD.
- 2021 “The Inchworm Episode: Reconstituting the Phenomenon of Kinesin Motility.” Neuroscience and Philosophy at the Gulf IV, Pensacola, FL (accepted, not attending).
- 2020 “Non-Humean Implications of Markers and Mechanisms.” **Invited talk.** Workshop for Nancy Cartwright’s “Nature: The Artful Modeler.” UCSD.
- 2019 “A Feeling for the Neuron: The Status of the ‘Discrete-gating Picture in Hodgkin and Huxley’s Model of the Action Potential. 2019 Conference for the International Society for the History, Philosophy and Social Studies of Biology. Oslo, Norway.
- 2019 “Understanding Ape Social Cognition.” **Invited talk.** California State University, Long Beach.
- 2019 “Understanding Ape Social Cognition.” 2019 “Intelligence: Human, Animal and Machine” at University of Missouri, St. Louis.
- 2018 Pacific APA Conference, Colloquium Chair: Philosophy of Psychology (March 28<sup>th</sup>, San Diego, CA)
- 2018 “Representationalism and the Methodology of Transparency-Motivated Theorizing.” 2018 Southern Society for Philosophy and Psychology Conference (March 15<sup>th</sup>)
- 2017 “Adaptation, Representationalism and Thermometers.” 2017 Rocky Mountain Philosophy Conference (April 7<sup>th</sup>)
- 2017 Commentator: “Visualized Space is Experienced as Connected to Perceived Space.” Author: Bartłomiej Chomanski. Southern Society for Philosophy and Psychology 2017 Conference (Savannah, March 22<sup>nd</sup>)
- 2016 “Adaptation, Representationalism and Thermometers.” 54<sup>th</sup> annual meeting of the Alabama Philosophical Society (Pensecola, September 30<sup>th</sup>)
- 2016 “Representationalism and Explanation.” 5<sup>th</sup> annual CSULB Philosophy Day Symposium (Long Beach, April 25<sup>th</sup>)
- 2016 Pacific APA Conference, Colloquium Chair: Normative Generics and Social Kind Terms (April 1<sup>st</sup>, San Francisco, CA)
- 2014 “Berkeley’s Concession.” 3<sup>rd</sup> annual CSULB Philosophy Day Symposium (Long Beach, May 2<sup>nd</sup>)

## Other Research Experience

- 2021 CYBORG cells: Modular Integration of synthetic organelles into living cells. Marine Biological Laboratory. Wood’s Hole, MA.
- 2016 Pre-doctoral Research Associate in the Philosophy of Neuroscience.  
Supervisor: John Bickle
- 2009 Undergraduate Researcher, NSF Grant: “Everett Papers Archive and Commentary”  
Principle Investigator: Jeff Barrett  
Project produced: Barrett, J.A. & P. Bryne (2012) *The Everett Interpretation of Quantum Mechanics: Collected Works and Commentary 1955-1980*, Princeton: Princeton University Press.

## **Graduate-Level Coursework**

### ***University of California, San Diego***

*Phil 204A Core Course Philosophy of Science* (Dr. William Bechtel)

*Phil 200 Philosophy Proseminar* (Dr. Rick Grush)

*Cogs 260 Developmental Science* (Dr. Gideon Deak)

*Phil 285 The Self* (Dr. Matt Fulkerson)

*Phil 285 Philosophy of Science* (Dr. Nancy Cartwright)

*Phil 285 Hegel* (Dr. Hardimon and Dr. Tolley)

*Phil 234 Philosophy of Language* (Dr. Paolo Santori)

*Psych 247 Learning by Thinking* (Dr. Caren Walker)

*Cogs 200 Cognitive Science Seminar* (Dr. Marta Kutas)

*Phil 290 Independent Study* (Dr. William Bechtel)

*Phil 285 Love and Attachment* (Dr. Monique Wonderly)

*Neu 221 Philosophy of Neuroscience* (Dr. William Bechtel)

*Cogs 260 Evolution of Social Cognition* (Dr. Christine Johnson)

*Cogs 200 Cognitive Science Seminar* (Dr. Taylor-Jackson Scott)

*Phil 218 Gareth Evans Varieties of Reference* (Dr. Rick Grush)

*Phil 285 Seminar Philosophy of Science* (Dr. William Bechtel)

*Phil 290 Independent Study* (Dr. Monique Wonderly)

*Cogs 200 Cognitive Science Seminar* (Dr. Gary Cottrell)

*Phil 290 Independent Study* (Dr. Nancy Cartwright)

*Psych 252 Cognitive Neuroscience* (Dr. Ramachandran)

*Phil 290 Independent Study* (Dr. Nancy Cartwright)

*Phil 290 Independent Study* (Dr. William Bectel)

*Phil 290 Independent Study* (Dr. Nancy Cartwright)

*Phil 290 Independent Study* (Dr. William Bechtel)

*Phil 210 Topics Ancient Phil* (Dr. Casey Perin)

*Phil 290 Independent Study* (Dr. Monique Wonderly)

### ***Department of Philosophy, California State University Long Beach***

*PHIL698: Directed Thesis* (Dr. Alex Klein)

*PHIL593: Special Topics Metaphysical Studies: Perception* (Dr. Alex Klein)

*PHIL680: Special Topics Epistemology: Naturalized Epistemology* (Dr. Charles Wallis)

*PHIL516: Pragmatism* (Dr. Alex Klein)

*PHIL599 Graduate Tutorial: Evolutionary Game Theory* (Dr. Wayne Wright)

*PHIL599: Graduate Tutorial: Early Psychological Methods* (Dr. Alex Klein)

*PHIL523: Kant* (Dr. Nellie Wieland)

*PHIL610: Proseminar: Semantics and Pragmatics* (Dr. Nellie Wieland)

### ***Department of Philosophy, University of California Irvine***

*PHIL200: Epistemology: Gettierology* (Dr. Sven Bernecker)

*Department of Logic & Philosophy of Science, University of California Irvine*

*LPS199: Independent Study: Pragmatism* (Dr. Jeff Barrett)

## **Teaching Experience**

### ***Courses Taught***

2020 Philosophy 23: Ethics of Climate Change (TA)

2020 Philosophy 27: Knowledge and its Limits (TA)

2019 Cognitive Science 13: Observational Methods (TA)

- 2017 Philosophy 1113: Introduction to Logic (Mississippi State University)  
2016 Philosophy 1113: Introduction to Logic (Mississippi State University)  
2014 S/I 60: Supplemental Instruction for *HIST173 Recent American History* (CSULB)  
2013 S/I 60: Supplemental Instruction for *R/ST100: Introduction to Religion* (CSULB)

### *Credentialing*

2009 *TEFL Certification*, University of California, Irvine Extension

### **Professional Memberships**

- 2019—Present: International Society for the History, Philosophy and Social Studies of Biology  
2016—Present: Southern Society for Philosophy and Psychology  
2016—Present: Philosophy of Science Association  
2016—Present: Alabama Philosophical Society  
2014—Present: American Philosophical Association  
2014—Present: The Honors Society of Phi Kappa Phi

### **Departmental Service**

- 2019 UCSD Summer Program for Women in Philosophy volunteer.  
2019—Present: Future of Mind Research Group at UCSD
- Instituted interdisciplinary philosophy and cognitive science group at UCSD for investigating conceptual foundations of cognitive science.
- 2007—2008 President, Saddleback College Philosophy Club
- Reinstated club at Saddleback Community College. Planned and coordinated events including but not limited to rushes, socials, fund raisers and club meetings. Developed reading packets on various philosophical topics of interest to our club members. Led discussion sections.
- 2007—2008 Vice-President, UC Irvine Philosophy Club
- Administered biweekly club meetings, designated discussion topics, and recruited members. Organized and hosted the Quarterly Lecture Series in Philosophy and Science, including: securing guest lecturers, event fundraising and advertising, and obtaining venues. Building and maintaining relationships with academic departments and student organizations at UCI and other universities in order to accomplish the aforementioned

### **References**

#### **Dr. William Bechtel**

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#### **Dr. Nancy Cartwright**

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University of California, San Diego  
La Jolla, California 92092 USA

**Dr. Monique Wonderly**  
Department of Philosophy  
Ridge Walk Academic Complex  
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**Dr. John Bickle**  
Department of Philosophy and Religion  
1030 George Hall  
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