

# Alkistis Elliott-Graves

## *Curriculum Vitae*

Department of Philosophy  
Bielefeld University  
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### EMPLOYMENT

<b>Junior Professor in Philosophy of Science</b> Bielefeld University (Maternity Leave)	Oct 2020 – continuing Jun 2022 – Feb 2023
<b>Primary Investigator, 3-year Research Fellowship</b> University of Helsinki	Jan 2019 – Dec 2021
<b>Marie Skłodowska-Curie Fellow</b> University of Helsinki & Australian National University	Sep 2018 – Sep 2020
<b>Postdoctoral Researcher</b> Department of Political and Economic Studies (TINT), University of Helsinki, Finland	Jun 2016 – Sep 2018
<b>Postdoctoral Fellow in Philosophy of Science</b> Rotman Institute of Philosophy, Western University, Canada	Aug 2014 – May 2016

### EDUCATION

#### **PhD University of Pennsylvania, August 2014**

Dissertation in Philosophy: Target Systems and their Role in Scientific Inquiry

Areas of Specialization Philosophy of Biology (esp. Ecology), Philosophy of Science  
Areas of Competence Philosophy of Climate Science, Philosophy of the Social  
Sciences, Early Modern Natural Philosophy

#### **MSc London School of Economics and Political Science, 2008 (Distinction)**

Dissertation in Philosophy of the Social Sciences: An Evolutionary Account of Human Reason

#### **BA University College London, 2007 (1<sup>st</sup> Class Honors)**

European Social and Political Studies, Area of Specialization: Philosophy, Language: Italian

## GRANTS AND AWARDS

<b>Collaborative Research Center</b> A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC <sup>3</sup> )	DFG Project 316099922 (2022-2025) – Primary Investigator with Prof. Dr. Marie Kaiser on Project D02: <i>Individual-Based Research</i> (Total Funding Volume for Project D02 €122,000)
<b>3-year Research Grant</b>	University of Helsinki (2019-2021) – Primary Investigator, leading a team of 3 PhD Candidates Title of Project: <i>Prediction in a Changing Climate</i> (Total Funding Volume €150,000)
<b>Marie Skłodowska-Curie Fellowship, Global</b>	Horizon 2020 European Commission (2018-2020) Title of Project: <i>Prediction in Complex Systems</i> (Total Funding Volume €172,852.80)
<b>University of Pennsylvania</b>	Critical Writing Fellowship (2013-2014) George W. M. Bacon Fellowship (2012-2013) Benjamin Franklin Fellowship (2008-2012)

## PUBLICATIONS

### Journal Articles

- Elliott-Graves, A. (2022) “What are General Models about?” *European Journal for Philosophy of Science* 12(74).
- Elliott-Graves, A. (2020) ‘What is a Target System?’ *Biology and Philosophy* 35(8).
- Elliott-Graves, A. (2020) ‘The Value of Imprecise Prediction’ *Philosophy Theory and Practice in Biology* 12(4).
- Elliott-Graves, A. (2019) ‘The Future of Predictive Ecology’ *Philosophical Topics* 47(1): 65-82.
- Elliott-Graves, A. (2018) ‘Generality and Causal Interdependence in Ecology’ *Philosophy of Science* 85(1): 1102–1114.
- Elliott-Graves, A. (2016) ‘The Problem of Prediction in Invasion Biology’ *Biology and Philosophy*. 31:373-393.
- Elliott-Graves, A. & Weisberg, M. (2014) ‘Idealization’ *Philosophy Compass*, 9: 176–185.

### Monograph

Elliott-Graves, A. (in press) *Ecological Complexity* – Cambridge University Press.

### Book Chapters

Elliott-Graves, A. (2023) What sort of a Science is Ecology? In Cousens, R. D. *Effective Ecology: Seeking Success in a Hard Science*, Routledge, CRC Press.

### Book Reviews

Elliott-Graves, A. (2018) Review of *Defending Biodiversity: Environmental Science and Ethics* by Newman J., Varner G., & Linquist S., (2017), Cambridge University Press. - *Notre Dame Philosophical Reviews*

### In preparation

Elliott-Graves, A. ‘Ecology’ – peer reviewed article commissioned for *Stanford Encyclopedia of Philosophy*.

**Elliott-Graves, A.** & Heger, T. ‘Do we really need general unifying theories in Ecology?’ to be submitted to *Oikos*

Turnbull, K. **Elliott-Graves, A.**, Anthony A., Roland, J. Matter S. and Sinclair, B. ‘Vulnerability of

alpine butterfly eggs to early winter warming’ to be submitted to *Functional Ecology*  
 Heger, T. Bausman, W., Dietl, G, Dormann, C., **Elliott-Graves, A.**, Gibson, D. Griesemer, J., Grimm, V., et al. ‘Missed chances: Ecology and philosophy of science could strongly profit from each other’ to be submitted to *Nature Ecology and Evolution*  
 Krüger, O., Caspers, B., Chakarov, N., **Elliott-Graves, A.**, Kaiser, M. J., et al. Individualised niches: an integrative conceptual framework across behaviour, ecology, and evolution. Preprint found at: <https://doi.org/10.32942/osf.io/7h5xq>

## SELECTED COLLOQUIA & PRESENTATIONS

1. June 2023 – Gordon Conference in Predictive Ecology. Section on *Prediction and Causal Inference*. Title of Paper: What is the Point of Prediction? (invited speaker)
2. March 2023 – (Mis-)Interpretation of Scientific Evidence, ZiF Bielefeld. Title of Paper: Philosophy to the rescue! The case of model complexity in Fisheries Science (invited speaker)
3. May 2021 – Reflections on Philosophy and Science Colloquium – Leibniz Universität Hannover, Germany (via Zoom). Title of paper: ‘Meta-analysis in Biology’ (invited speaker)
4. October 2020 - FraMEPhys Idealized Models Workshop - University of Birmingham, Birmingham, UK (via Zoom). Title of Paper: “What are General Models About?” (invited speaker)
5. April 2020 - KLI Colloquia, Konrad Lorenz Institute, Vienna, Austria (via Zoom). Title of Paper: ‘Optimal Model Complexity in Sustainability Science’ (invited speaker)
6. August 2019 - Philosophy of Biology on Dolphin Beach 13, Moruya, Australia. Title of Paper: ‘Prediction in the Wild’ (invited speaker)
7. July 2019 - International Society for the History, Philosophy and Social Studies of Biology, Oslo, Norway. Title of Paper: “Meta-analysis as a Predictive Tool for Invasion Biology”, in the Symposium “Tackling Bioinvasions 60 years on: lessons from the trenches” (refereed presentation)
8. June 2019 - Charles University. Idealization Across the Sciences Workshop, Prague, Czech Republic. Title of Paper: Agreeing to Disagree: Pluralism about Optimal Model Complexity (invited speaker)
9. July 2018 - Hebrew University of Jerusalem, Modeling Reality Workshop, Jerusalem, Israel. Title of Paper: What are General Models about? (invited speaker)
10. September 2017 - European Philosophy of Science Association, Exeter, UK. Title of paper: Re-examining the value of Qualitative predictions for Problem-Based Science (refereed presentation)
11. November 2016 - Philosophy of Science Association, Biennial Meeting, Atlanta, USA. Title of paper: "Generalizability and Interdependence in Ecological Research", in the Symposium "Causality and Interdependence in Ecology" (refereed presentation)
12. May 2016 - Models and Simulations 7, Barcelona, Spain. Title of paper: "The Danger of Over-Generalization in Ecological Modelling" (refereed presentation)
13. July 2015 - International Society for the History, Philosophy and Social Studies of Biology, Montréal, Canada. Title of paper: "Causal Heterogeneity Constrains Predictive Power in Ecology", in the Symposium "Heterogeneity and the Problem of Ecological Prediction".
14. July 2013 - International Society for the History, Philosophy and Social Studies of Biology, Montpellier, France. Title of paper: “What is the Target of a Generalized Model?”
15. November 2012 - Philosophy of Science Association, Biennial Meeting, San Diego, USA. Title of paper: “Abstract and Complete” (refereed presentation)

## TEACHING

<b>Bielefeld University</b>	<i>The Future of Food</i> (Grad Seminar) (So23) <i>Knowledge, Media &amp; Public Discourse</i> (Undergrad Writing Seminar) (So23) <i>Philosophy of Human Nature</i> (So22) <i>Philosophy of Experiment</i> (So22) <i>Intro to Philosophy of Science</i> (Undergrad Seminar) (Wi 21-22) <i>Understanding Uncertainty</i> (Grad Seminar) (So 21) <i>What is Science?</i> (Undergrad Writing Seminar) (So 21) <i>Philosophy &amp; the Environment</i> (Undergrad Seminar) (Wi 20-21) <i>Knowledge in Science &amp; Philosophy</i> (Grad Seminar) (Wi 20-21)
<b>Australian National University</b>	<i>Prediction in Complex Systems</i> (PhD Seminar) (Spring 2019)
<b>University of Helsinki</b>	<i>Models vs Experiments</i> (Masters Level Seminar) (Fall 2017)
<b>Western University</b>	<i>Epistemology</i> (Advanced Undergrad Seminar) (Spring 2015)
<b>University of Pennsylvania</b>	As Primary Instructor: <i>Philosophy of Biology</i> (Undergrad Seminar) (Spring 2013) <i>Science and Human Nature</i> (Fall 2013, Spring 2014) As Teaching Assistant: <i>Early Modern Philosophy</i> (Spring 2011) <i>Philosophy of the Social Sciences</i> (Spring 2010) <i>Philosophy of Mind</i> (Fall 2010) <i>Introduction to Philosophy</i> (Fall 2009)
<b>Development of Teaching Skills</b>	
University of Helsinki Center for Teaching and Learning	<i>University Pedagogy Course 1: Learning in Higher Education</i> (Spring 2020)

## SUPERVISION

<b>Bielefeld University</b>	
Post-Doctoral Students	Katherine Morrow (current)
PhD Students	Robert Frühstückl – Primary Supervisor (current) Marlene van den Bos – Primary Supervisor (current)

## SERVICE

<b>Associate Editor</b>	July 2021- July 2025 <i>European Journal for Philosophy of Science</i>
<b>Contributor</b>	European Philosophy of Science Association, Women's Caucus <i>Diversity Reading List</i>
<b>Reviewer</b>	<i>British Journal for the Philosophy of Science, Philosophy of Science, Biology and Philosophy, European Journal of Philosophy of Science, Studies in the History and Philosophy of Science, Synthese, BioScience</i>
<b>Conference Organiser</b>	Epistemic and Non-Epistemic Values in Ecology (planned for May 2020, cancelled due to Covid-19 pandemic)

Philosophy of Biology on Dolphin Beach, Canberra/Moruya,  
Australia (July 2011)

## COLLABORATIONS

<b>Principal Investigator</b>	DFG Research Training Group 2073 “Integrating Ethics and Epistemology of Scientific Research” (Jan 2021 – continuing)
<b>Principal Investigator</b>	DFG CRC NC3 316099922 Project D02
<b>Member</b>	Society for Open, Reliable, And Transparent Ecology and Evolutionary Biology (SORTEE) (Jan 2021 – continuing)
<b>Member</b>	Sinclair Lab (Ecology and Insect Physiology), Western University (Sep 2014-Aug 2016) <a href="http://publish.uwo.ca/~bsincla7/index.html">http://publish.uwo.ca/~bsincla7/index.html</a>
<b>Member</b>	Geofunctions Project, Rotman Institute, Western University (Jan 2015-Aug 2016) <a href="http://geofunctionsproject.org/">http://geofunctionsproject.org/</a>

## LANGUAGES SPOKEN

English & Greek (native speaker), Italian (fluent), German (intermediate - B2), French (conversational), Finnish (beginner – Completed Suomi 2)