

# Dr. Joshua Luczak

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College of Integrative Studies  
Singapore Management University

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## *Areas of Specialization*

Philosophy of Climate Science, Environmental Ethics, Philosophy of Science

## *Areas of Competence*

Ethics, Philosophy of Physics, Logic

## *Employment*

<b>Assistant Professor of Philosophy (Education),</b> Singapore Management University	2020—Present
<b>Visiting Lecturer,</b> Philosophy, Monash University	Winter 2019
<b>Postdoctoral Fellow,</b> Leibniz Universität Hannover	2016–2019
<b>Visiting Assistant Professor,</b> Georgetown University	2015–2016, Fall 2018
<b>Ernst Mach Visiting Fellow,</b> University of Salzburg	Feb-March, 2017

## *Education*

<b>Ph.D.,</b> Philosophy, The University of Western Ontario	2011–2015
<i>Dissertation:</i> On Nonequilibrium Statistical Mechanics	
<i>Committee:</i> Wayne Myrvold (Chair), Carl Hoefer, Markus Müller (Applied Math), Chris Smeenk, and David Wallace (External)	
<b>M.A. (First Class Honours),</b> Philosophy, Monash University	2010
<b>B.A.\B.Sc. (Hons.),</b> Philosophy, Mathematics, Monash University	2007

## *Publications*

- 2024.** “Toys as Tools for Good Science.” *Studies in Applied Philosophy, Epistemology and Rational Ethics*. Vol. 70: 18–34.
- 2024.** “Current State of Geoengineering.” In Brears R., Lindley J. (eds), *Palgrave Studies in Sustainable Futures: The Palgrave Handbook of Environmental Policy and Law*. Palgrave Macmillan.
- 2023.** “Climate Denialism Bullshit is Harmful.” *Asian Journal of Philosophy*. Vol. 2, No. 1.
- 2022.** “Saul’s Bullshit: It’s Not All Good Man.” In Coppenger B., Heter J. (eds), *Better Call Saul and Philosophy: I think, Therefore I Scam*. Carus Books.
- 2021.** “The Ehrenfests’ Use of Toy Models to Explore Irreversibility in Statistical Mechanics.” In Uffink J., Valente G., Werndl C., Zuchowski L. (eds), *The Legacy of Tatjana Afanassjewa. Women in the History of Philosophy and Sciences*, Vol. 7, Springer. (With Lena Zuchowski).
- 2018.** “How Many Aims Are We Aiming At?” *Analysis*. Vol. 78, Issue 2: 244–254.
- 2017.** “Talk About Toy Models.” *Studies in History and Philosophy of Modern Physics*. Vol. 57: 1–7.
- 2016.** “On How to Approach the Approach to Equilibrium.” *Philosophy of Science*. Vol. 83, Issue 3: 393–411.

## *Book Reviews*

- 2015.** “Reflections on Lazare and Sadi Carnot.” *Metascience*, Vol. 24, Issue 1: 87–89.
- 2013.** “On Chance.” *Metascience*, Vol. 22, Issue 1: 85–87.

## *Presentations*

- “To Defer, or Not To Defer? Is That Even a Question?”** Australasian Association of Philosophy Annual Conference. University of Queensland, Brisbane, Australia. July 6-10, 2025.
- “To Defer, or Not To Defer? Is That Even a Question?”** APPSA-LMPST Taiwan 2025. National Yang Ming Chiao Tung University, Taipei, Taiwan. June 17-19, 2025.
- “To Defer, or Not To Defer? Is That Even a Question?”** UC Merced Workshop in Science, Values, and Policy. Yosemite Bug Resort in Midpines, California, USA. May 17-18, 2025.
- “To Defer, or Not To Defer? Is That Even a Question?”** CIS Brown Bag Series. Singapore Management University, Singapore. Feb. 27, 2025.
- “Validity, Affluence, and Morality.”** Shades of Poverty: Challenges to Integral Human Development Conference. Universidade Católica Portuguesa, Lisbon, Portugal. Nov. 25-26, 2024.

**“Carbon Dioxide Removal Ain’t That Cool Either.”** Centre for Bioethics Speaker Series. National University of Singapore, Singapore. Aug. 8, 2024.

**“Carbon Dioxide Removal Ain’t That Cool Either.”** Department of Philosophy Speaker Series. University College London, London, UK. May 5, 2024.

**“Climate Denialism Bullshit is Harmful.”** 19<sup>th</sup> Murdoch Colloquium: Philosophy and the Environment. Murdoch University, Perth, Australia. Nov. 23, 2023.

**“Climate Denialism Bullshit is Harmful.”** Deceptive Speech Acts in Philosophy and Law Conference. Jagiellonian Center for Language, Law, and Philosophy, Jagiellonian University, Krakow, Poland. Oct. 5-6, 2023.

**“Climate Denialism Bullshit is Harmful.”** The 2<sup>nd</sup> Perspectives about Truth Conference. National University of Science and Technology Politehnica Bucharest. Bucharest, Romania. Sept. 29-30, 2023.

**“Climate Denialism Bullshit is Harmful.”** 2023 Asia Pacific Philosophy of Science Association Conference. VinUniversity, Hanoi. July 21-22, 2023.

**“Regulate Geoengineering Now.”** SMU-Sydney-HKU Law & Sustainability Conference. Singapore Management University, Singapore. July 13-14, 2023.

**“Umm...Let’s Maybe Offer a Valid Argument for Helping the World’s Less Fortunate.”** Australasian Association of Philosophy Annual Conference. Australian Catholic University, Melbourne, Australia. July 2-6, 2023.

**“Not Just Toying Around.”** Ninth International MBR Conference: Model-Based Reasoning, Abductive Cognition, Creativity, Sapienza University of Rome, Italy. June 7-9, 2023.

**“Umm...Let’s Maybe Offer a Valid Argument for Helping the World’s Less Fortunate.”** CIS Brown Bag Series, Singapore Management University, Singapore. March 8, 2023.

**“Scientific Progress and Robust Bayesian Confirmation”** Scientific Progress – Individual & Collective. Abraham Kuyper Center, Vrije Universiteit Amsterdam, The Netherlands. August 24-26, 2022.

**“Look At What You Are Aiming At!”** Australasian Association of Philosophy Annual Conference. University of Waikato, New Zealand. June 28-July 7, 2022.

**“Not Just Toying Around.”** Beyond Models: Workshop on Model Independence in Physics. Physics Institute, University of Bonn, Germany. June 15, 2022.

**“Climate Denialism Bullshit is Harmful.”** Trust in the Digital Age Conference. Center for Law, Ethics and Digital Technologies, Yaroslav Mudryi National Law University, Ukraine. May 25, 2022.

**“Climate Denialism Bullshit is Harmful.”** SOSS Research Camp. Singapore Management University, Singapore. November 12, 2021.

**“Climate Denialism Bullshit is Harmful.”** Australasian Association of Philosophy Annual Conference. University of Waikato, New Zealand. July 6-15, 2021.

**“Climate Denialism Bullshit is Harmful.”** Canadian Society for the History and Philosophy of Science Annual Conference. University of Alberta, Canada. May 29-June 2, 2021.

**“Climate Denialism Bullshit is Harmful.”** Georgia Philosophical Society: Conference on Philosophical Perspectives on Contemporary Problems. University of Georgia, USA. March 25-26, 2021.

**“On the Aims of Statistical Mechanics.”** Seminar Series, Australian National University, Australia. May 28, 2020.

**“Not Just Toying Around.”** Conference: Scientific Modelling, Pushing the Boundaries. Australian National University, Australia. June 7, 2019.

**“It’s My Model and I’ll Represent if I Want To.”** American Philosophical Association: Eastern Division. New York, USA. January 7-10, 2019.

**“It’s My Model and I’ll Represent if I Want To.”** 26<sup>th</sup> Biennial Meeting of the Philosophy of Science Association. Seattle, USA. November 1-4, 2018.

**“The Ehrenfest’s Use of Toy Models to Explore Irreversibility in Statistical Mechanics.”** 19<sup>th</sup> UK and European Conference on Foundations of Physics. University of Utrecht, The Netherlands. July 10-13, 2018.

**“More Talk About Toy Models.”** Seventh Biennial Society for Philosophy of Science in Practice Conference. University of Ghent, Belgium. June 29-July 2, 2018.

**“On the Aims of Statistical Mechanics.”** Conference: Thermodynamics as a Resource Theory. The University of Western Ontario, Canada. June 20-22, 2018.

**“It’s My Model and I’ll Represent if I Want To.”** Conference: Models. LMU Munich, Germany. May 4-5, 2018.

**“On the Aims of Statistical Mechanics.”** American Philosophical Association: Pacific Division. San Diego, USA. March 28-April 1, 2018.

**“More Talk About Toy Models.”** Spring Meeting of the German Physical Society (DPG). Technische Universität Berlin, Germany. March 11-16, 2018.

**“On the Aims of Statistical Mechanics.”** Conference: Symmetries and Asymmetries in Physics. Leibniz Universität Hannover, Germany. July 6-8, 2017.

**“More Talk About Toy Models.”** Conference: Reasoning and Argumentation in Science. LMU Munich, Germany. May 31-June 2, 2017.

**“More Talk About Toy Models.”** Conference: Explanatory Strategies in Physics. Leibniz Universität Hannover, Germany. May 11, 2017.

**“On the Aims of Statistical Mechanics.”** 18<sup>th</sup> UK and European Conference on Foundations of Physics. London School of Economics, UK. July 16-18, 2016.

**“On How to Approach the Approach to Equilibrium.”** 15<sup>th</sup> Congress of Logic, Methodology, and Philosophy of Science. University of Helsinki, Finland. August 3-8, 2015.

**“Toy Models: Interesting? Yes. Approximations? Idealisations? No.”** Models and Simulations 6. University of Notre Dame, USA. May 9-11, 2014.

**“Toy Models: What They Are, What They’re Not, and What They’re Good For.”** Second Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics. University of California, Irvine, USA. March 20-21, 2014.

**“Toy Models: What They Are, What They’re Not, and What They’re Good For.”** 17<sup>th</sup> Oxford Philosophy Graduate Conference. University of Oxford, UK. November 15-17, 2013.

**“Toy Models: Interesting? Yes. Approximations? Idealisations? No.”** Congress on Logic and Philosophy of Science. Ghent University, Belgium. September 16-18, 2013.

**“Toy Models: Interesting? Yes. Approximations? Idealisations? No.”** Philosophy Graduate Student Association (PGSA) Colloquium, The University of Western Ontario, Canada, March 20, 2013.

**“Fatalism, Bivalence, and You.”** Canadian Philosophical Association Annual Meeting. Wilfrid Laurier University/University of Waterloo, Canada. May 27-30, 2012.

**“A Good Defence of Abortion.”** Centre on Values and Ethics (COVE) Conference. Carleton University, Canada. March 10-11, 2012.

## *Teaching*

### *Philosophy Instructor*

#### **Singapore Management University**

Heated Debates: Climate Justice	Spring 2025
Big Questions: Happiness and Suffering	Fall 2024
Big Questions: Happiness and Suffering	Spring 2024
Heated Debates: Climate Justice	Fall 2023
Big Questions: Happiness and Suffering	Fall 2023
Heated Debates: Climate Justice	Spring 2023
Big Questions: Wealth and Poverty	Spring 2023
Big Questions: Wealth and Poverty	Fall 2022
What is This Thing Called Science?	Spring 2022
Big Questions: War and Peace	Fall 2021
Big Questions: Global and Local	Spring 2021
Analytical Skills	Spring 2021
What is This Thing Called Science?	Fall 2020
Analytical Skills	Spring 2020

Big Questions: Happiness and Suffering Spring 2020

**Monash University**

Critical Thinking Fall 2019

**Leibniz Universität Hannover**

Introduction to Formal Methods Spring 2019

Philosophy at the Movies Fall 2018

Inductive Logic and Rational Choice Theory Spring 2018

Big Ideas Through Thought Experiments Spring 2018

Philosophy of Science Fall 2017

Death and Morality Fall 2017

The Nature of Knowledge Spring 2017

Contemporary Moral Issues Spring 2017

Philosophy of Probability Fall 2016

Metaphysics and Moral Responsibility Fall 2016

**Georgetown University**

Introduction to Logic Fall 2018

Introduction to Philosophy: Metaphysics and Epistemology Spring 2016

Introduction to Logic Spring 2016

Contemporary Moral Issues Fall 2015

Beginning Logic Fall 2015

**Royal Melbourne Institute of Technology**

Business Ethics Fall 2011

Business Ethics Spring 2010

**Singapore Institute of Management University**

Business Ethics Fall 2011

*Philosophy Teaching Assistant\**

**The University of Western Ontario**

Introduction to Philosophy 2013–2014F

Reasoning and Critical Thinking 2012–2013F

Advanced Introduction to Philosophy 2011–2012F

**Monash University**

Philosophy of Film Summer 2011

Human Rights Theory Fall 2011

Philosophy of Film Summer 2010

Philosophical Explorations of World Religions Summer 2010

Life, Death and Morality Fall 2010

Time, Self and Mind Spring 2010

Ethics Summer 2009

Life, Death and Morality Fall 2009

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\*F = Full year course.

Reason and Argument	Fall 2009
Time, Self and Freedom	Spring 2009
God, Freedom and Evil	Spring 2009
Ethics	Summer 2008
Life, Death and Morality	Summer 2008
Life, Death and Morality	Fall 2008
Reason and Argument	Fall 2008
Time, Self and Freedom	Spring 2008
Philosophy of Sex	Spring 2008
Time, Self and Freedom	Spring 2007
Primary Logic	Spring 2007

### *Mathematics Teaching Assistant*

#### **Monash University**

Analysis of Change	Fall 2008
Techniques of Modelling	Spring 2008
Linear Algebra with Applications	Fall 2007
Analysis of Change	Fall 2007
Techniques of Modelling	Spring 2006
Multivariable Calculus	Spring 2006
Analysis of Change	Fall 2006

### *Academic Service*

**Referee for** *The British Journal for the Philosophy of Science, Canadian Journal of Physics, Erkenntnis, European Journal for Philosophy of Science, Journal for General Philosophy of Science, Philosophers' Imprint, Philosophy of Science, Studies in History and Philosophy of Modern Physics, Studies in History and Philosophy of Science, Synthese, Theoria.*

**College of Integrative Studies** 2021–Present  
**Events Co-Chair, D3 Committee**  
Singapore Management University

**College of Integrative Studies** 2021–Present  
**Member, Wee Kim Wee Centre, Alumni & External Relations Committee**  
Singapore Management University

**PhilPapers Area and Subject Editor,** 2014–Present  
Philosophy of Physical Science, Philosophy of Probability  
Thermodynamics and Statistical Mechanics,  
Models and Idealization, Probabilistic Reasoning

**Centre for Digital Philosophy** 2014–Present  
**Editorial and Administrative Assistant,**  
The University of Western Ontario

<b>Academic Graduate Mentor</b> Australasian Association of Philosophy	2023
<b>College of Integrative Studies</b> <b>External Relations Committee Member,</b> Singapore Management University	2021–2023
<b>Symmetries and Asymmetries in Physics</b> <b>Conference Co-Organiser,</b> Leibniz Universität Hannover	2017
<b>Rotman Institute of Philosophy</b> <b>Member,</b> The University of Western Ontario	2012–Present
<b>Rotman External Public Outreach</b> <b>Committee Member,</b> The University of Western Ontario	2013–2015
<b>Rotman K-12 Outreach</b> <b>Committee Member,</b> The University of Western Ontario	2013–2015
<b>Logic, Mathematics, and Physics</b> <b>Graduate Conference Co-Organiser,</b> The University of Western Ontario	2012–2014
<b>Philosophy Graduate Student Association Mentor,</b> The University of Western Ontario	2012–2013