

JOSEPH MILLUM

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Publications: <http://philpapers.org/profile/4990>

Building 10, Room 1C118

Bethesda, MD, 20892

EMPLOYMENT

2012 – present Bioethicist (permanent faculty)
Clinical Center Department of Bioethics & Fogarty International
Center, National Institutes of Health, USA

Research foci

- Priority-setting in healthcare and research
- International research ethics
- Ethics of parenthood
- Informed consent

Service and teaching

- Bioethics consultation
- Protocol review (IRB and DSMB)
- Mentoring (post-docs and post-bacs)
- Teach and organize workshops in bioethics

2008 – 2012 Research Fellow (faculty)
Clinical Center Department of Bioethics & Fogarty International
Center, National Institutes of Health, USA

2006 – 2008 Post-Doctoral Fellow
Clinical Center Department of Bioethics, National Institutes of
Health, USA

2005 – 2006 Post-Doctoral Fellow
Department of Philosophy, University of Toronto, Canada

EDUCATION

2017 M.Sc., Applied Economics, Johns Hopkins University, USA

2005 Ph.D., Philosophy, University of Toronto, Canada.

1999 M.A. Hons, Philosophy, University of Edinburgh, UK. First Class
Honours.

1998 Summer Semester. Dartmouth College, USA. GPA: 4.0.

PUBLICATIONS

Books

Millum, J., *The Moral Foundations of Parenthood*. Oxford University Press. Forthcoming.

Millum, J. and E. J. Emanuel (eds.) *Global Justice and Bioethics*. Oxford University Press (2012).

(Reviewed in *Ethics, Hastings Center Report, Journal of the American Medical Association*)

Danis M., E. Largent, D. Wendler, S. C. Hull, S. Shah, **J. Millum**, B. Berkman, and C. Grady, *Research Ethics Consultation: A Casebook*. Oxford University Press (2012).

(Reviewed in *American Journal of Bioethics, Journal of Clinical Research Best Practices*)

Books in preparation

Norheim, O.F., D. Jamison, K.A. Johansson, **J. Millum**, T. Ottersen, J.P. Ruger, S. Verguet, E. Emanuel (eds.), *Global Health Priority-Setting: Cost-Effectiveness and Beyond*.

DeGrazia, D. and **J. Millum**, *A Theory of Bioethics*.

Edited Journal Collections

International Research Ethics Education. Journal of Empirical Research on Human Research Ethics. Vol. 9, Issue 2. (April 2013). Collection Editor with Barbara Sina.

International Research Ethics Education. Journal of Empirical Research on Human Research Ethics. Vol. 8, Issue 5. (December 2013). Collection Editor with Barbara Sina.

Case Studies in the Ethics of Mental Health Research. Journal of Nervous and Mental Disease. Volume 200, Number 3 (March 2012). Collection Editor.

Asian Bioethics: Breaking New Ground. Asian Bioethics Review Vol. 2. Issue 3 (July 2010). Guest Editor with Reidar Lie.

Web Resources

NIH Fogarty International Center *Bioethics Information and Resources*. Available at <http://www.fic.nih.gov/ResearchTopics/Pages/Bioethics.aspx>.

Journal Articles and Chapters

Bromwich, D. and **J. Millum** 'Lies, Control, and Consent: A Response to Dougherty and Manson' *Ethics*. Forthcoming.

Mukherjee, A., Livinski, A.A., **Millum, J.**, Chamut, S., Boroumand, S., Iafolla, T.J., Adesanya, M.R. and Dye, B.A., 2017. 'Informed consent in dental care and research for the older adult population: A systematic review' *Journal of the American Dental Association*. (2017) Apr;148(4):211-220.

Barsdorf, N. and **J. Millum** 'The Social Value of Research and the Worst Off' *Bioethics* 31 (2) 2017: 105-115.

Bromwich, D. and **J. Millum** 'Informed Consent to HIV Cure Research' *Journal of Medical Ethics*. (2017) 43(2):108-113.

John, T., **J. Millum**, and D. Wasserman 'How to allocate scarce health resources without discriminating against people with disabilities' *Economics & Philosophy*. 2016. Online first.

Du Toit, J. and **J. Millum** 'Are indirect benefits relevant to health care allocation decisions?' *Journal of Medicine and Philosophy*. 41 (5) (2016): 540-557.

Millum, J. 'Transmitting Cholera to Haiti'. In Drue H. Barrett, Gail Bolan, Angus Dawson, Leonard Ortmann, Andreas Reis, Carla Saenz (eds.) *Public Health Ethics: Cases Spanning the Globe*. Springer (2016): 270-274.

Alexander EP Heazell, Dimitrios Siassakos, Hannah Blencowe, Zulfiqar A Bhutta, Joanne Cacciatore, Nghia Dang, Jai Das, Vicki Flenady, Katherine J Gold, Olivia K Mensah, **Joseph Millum**, Daniel Nuzum, Keelin O'Donoghue, Maggie Redshaw, Arjumand Rizvi, Tracy Roberts, H.E. Toyin Saraki, Claire Storey, Aleena M Wojcieszek, Soo Downe, and the Stillbirth Series Steering Group. 'Stillbirths: Economic and Psychosocial Consequences' *The Lancet*. Vol.387, No.10018, (2016):604-616.

Millum, J. 'The Ethics of Transactions in an Unjust World'. In K. Zeiler and E. Malmqvist (eds.) *Bodily Exchanges, Bioethics and Border Crossing: Perspectives on Giving, Selling and Sharing Bodies*. Routledge: Oxon (2016): 185-196.

Rulli, T. and **J. Millum** 'Rescuing the Duty to Rescue'. *Journal of Medical Ethics*. 42 (2016):260-264.

Sharp, D. and **J. Millum** 'Prioritarianism for Global Health Investments: Identifying the Worst Off' *Journal of Applied Philosophy* (2015). Online DOI: 10.1111/japp.12142.

Qureshi, Z.U., **J. Millum**, H. Blencowe, M. Kelley, E. Fotrell, J. E. Lawn, A. Costello, T. Colbourn. 'A Silenced Cry: Should stillbirth be given greater priority on the global health agenda?' *The BMJ* 351 (2015):h4620.

Sharp, D. and **J. Millum** 'The Post-2015 Development Agenda: Keeping Our Focus On the Worst Off' *American Journal of Tropical Medicine and Hygiene*. 92(6) (2015):1087–1089.

Mandava, A., **Millum, J.**, Berkman, B. E., 'When Should Genomic Researchers Disclose Misattributed Parentage?' *Hastings Center Report*. 45;4 (2015): 28-36.

Bromwich, D. and **J. Millum** 'Disclosure and Consent to Medical Research Participation'. *Journal of Moral Philosophy*. Vol. 12 (2015): 195-219.

Millum, J., Sina, B., Glass, R. 'International Research Ethics Education'. *Journal of the American Medical Association*. Vol. 313. No. 5 (2015): 461-462.

Millum, J. 'Age and Death: A Defense of Gradualism'. *Utilitas* Vol.27, No.3 (2015): 279-297.

Phillips, J. and **J. Millum** 'Valuing Stillbirths'. *Bioethics*. Vol. 29. No. 6 (2015): 413-423.

Millum, J. 'The Foundation of the Child's Right to an Open Future'. *Journal of Social Philosophy*. Vol. 45 No. 4 (2014): 522–538.

Millum, J. and B. Sina 'Introduction: International Research Ethics Education'. *Journal of Empirical Research on Human Research Ethics*. Vol. 9, No. 2 (2014): 1-2.

Matar, A., S. Garner, **J. Millum**, B. Sina, H. Silverman 'Curricular Aspects of the Fogarty Bioethics International Training Programs'. *Journal of Empirical Research on Human Research Ethics*. Vol. 9, No. 2 (2014): 12–23.

Littler, K., **J. Millum**, D. Wassenaar 'The Global Forum for Bioethics in Research: Past, Present and Future'. *South African Journal of Bioethics and Law*. 2014;7(1):5-8.

Millum, J. 'Consent Under Pressure: The Puzzle of Third Party Coercion'. *Ethical Theory and Moral Practice*. Volume 17, Issue 1 (2014): 113–127.

Millum, J., Grady, C., Keusch, G., Sina, B. 'Introduction: The Fogarty International Research Ethics Education and Curriculum Development Program in Historical Context'. *Journal of Empirical Research on Human Research Ethics*. Vol. 8, No. 5 (2013): 3–16.

- Millum, J.,** D. Wendler, E. J. Emanuel 'The 50th Anniversary of the Declaration of Helsinki: Progress but Many Remaining Challenges'. *Journal of the American Medical Association*. 2013; 310(20): 2143-2144.
- Millum, J.** and C. Grady 'The Ethics of Placebo-controlled Trials: Methodological Justifications'. *Contemporary Clinical Trials*. Volume 36, Issue 2 (2013): 510–514.
- Lieber, S. and **J. Millum** 'Preventing Sin: The Ethics of Vaccines Against Smoking'. *Hastings Center Report* 43, no. 3 (2013): 23-33.
- Mandava, A. and **J. Millum** 'Manipulation in the Enrollment of Research Participants'. *Hastings Center Report* 43, no. 2 (2013): 38-47
- Millum, J.** 'Canada's new ethical guidelines for research with humans: A critique and comparison with the United States'. *Canadian Medical Association Journal* 2012; 184: 657-661
- Millum, J.** 'Introduction: Case Studies in the Ethics of Mental Health Research'. *Journal of Nervous and Mental Disease* 2012; 200: 230-235
- Millum, J.** 'Global Bioethics and Political Theory'. In Millum, J. and E. J. Emanuel (eds.) *Global Justice and Bioethics*. Oxford University Press (2012): 17-42
- Millum, J.** and E. J. Emanuel, 'Introduction: Global Justice and Bioethics'. In Millum, J. and E. J. Emanuel (eds.) *Global Justice and Bioethics*. Oxford University Press (2012): 1-14
- Millum, J.** and R. Skolnik, 'Ethical and Human Rights Concerns in Global Health'. In Skolnik, R. *Global Health 101 2ed*. Jones & Bartlett Publishers (2012):71 - 86
- Brake, E. and **J. Millum**, 'Procreation and Parenthood'. *Stanford Encyclopedia of Philosophy* 2012 (Available at: <http://plato.stanford.edu/entries/parenthood/>)
- Millum, J.** 'Sharing the Benefits of Research Fairly: Two Approaches'. *Journal of Medical Ethics* 2012; 38: 219-223
- Lepora, C. and **J. Millum**, 'The Tortured Patient: A Medical Dilemma'. *Hastings Center Report* 2011 Vol. 41 No. 3: 38-47
(Reprinted in *Asian Bioethics Review* 3.3 (2011): 235-254; Reprinted in Chiara Lepora and Robert E. Goodin, *On Complicity and Compromise*. Oxford University Press (2013))
- Millum, J.** 'Post-Trial Access to Antiretrovirals: Who Owes What to Whom?' *Bioethics* 2011;25(3):145-154

Millum, J. and J. Menikoff 'Streamlining Ethical Review' *Annals of Internal Medicine*. 2010;153(10):655-657

Ellis R.D., I. Sagara, A. Durbin, A. Dicko, D. Shaffer, L. Miller, M. H. Assadou, M. Kone, B. Kamate, O. Guindo, M. P. Fay, D. A. Diallo, O. K. Doumbo, E. J. Emanuel, and **J. Millum** 'Comparing the Understanding of Subjects receiving a Candidate Malaria Vaccine in the United States and Mali' *American Journal of Tropical Medicine and Hygiene*, 83(4), 2010: 868–872

Lie, R. and **J. Millum** 'Asian Bioethics: Breaking New Ground'. *Asian Bioethics Review* 2.3 (2010): 171-172

Millum, J. 'How Do We Acquire Parental Rights?' *Social Theory and Practice* Vol. 36 No. 1: 112-132 (January 2010)

Millum, J. 'How Should the Benefits of Bio-prospecting Be Shared?' *Hastings Center Report* 40 No. 1: 24-33 (2010)
(Reprinted in *Asian Bioethics Review* 1.4 (2009): 383-400)

Millum, J. 'A Biological Alternative to Moral Explanations,' *The Southern Journal of Philosophy* Vol. 46 No. 3 (Fall 2008)

Millum, J. 'Are Pharmaceutical Patents Protected By Human Rights?' *Journal of Medical Ethics* 34:e25 (2008)

Millum, J. 'How Do We Acquire Parental Responsibilities?' *Social Theory and Practice* Vol. 34 No. 1: 71–93 (January 2008)

Millum, J. and E. Emanuel 'The Ethics of International Research with Abandoned Children,' *Science* 318: 1874–1875 (2007)

Millum, J. 'Natural Goodness and Natural Evil,' *Ratio* 19(2): 199–213 (June 2006)

Commentaries

Pierson, L. and **J. Millum** 'The limits of research institutions in setting research priorities'. *Journal of Medical Ethics*. 2017. Online first.

Millum, J. 'Controlling Ebola Trials'. *American Journal of Bioethics*. Volume 15, No. 4: 36-37 (2015)

Wertheimer, A., **J. Millum**, and G. O. Schaefer 'Why Adopt a Maximin Theory of Exploitation?' *American Journal of Bioethics*, Volume 10, No. 6: 38-39 (June 2010)

Borgerson, K. and **J. Millum** 'A Third Way: Ethics Guidance as Evidence-Informed Provisional Rules'. *American Journal of Bioethics*, Volume 10, No. 6: 20-22 (June 2010)

Book Reviews

N. Richards (2010), *The Ethics of Parenthood* (in *Philosophy in Review*, 32(2), 2012). Available at <http://journals.uvic.ca/index.php/pir/index>.

M. W. Austin (2007), *Conceptions of Parenthood: Ethics and the Family* (in *Notre Dame Philosophical Reviews* 2008). Available at <http://ndpr.nd.edu/review.cfm?id=12946>.

W.H. Harms (2004), *Information and Meaning in Evolutionary Processes* (in *Philosophy in Review*, 26 (3), 2006)

A. Taylor (2003), *Animals and Ethics* (in *The Peer Review*, Winter 2004)

SELECTED PRESENTATIONS

- 2017 **Lies, Control, and the Informational Requirements of Consent** (with Danielle Bromwich). Canadian Philosophical Association Annual Congress, Ryerson University. 28 May 2017
- 2016 **Putting a Number on the Harm of Death**. International Society on Priorities in Health Care, University of Birmingham, UK. 9 September 2016
- 2016 **What Does the Duty to Rescue Imply for Clinical Research? The Ethics of Research During an Epidemic: Lessons from Ebola**, Kings College London. 5 May 2016
- 2015 **Prostate Cancer Screening in Tanzania: Ethical Considerations**. National Cancer Institute. 4 November 2015
- 2015 **Understanding, Communication, and Consent**. American Society for Bioethics & Humanities, Houston, TX. 23 October 2015
- 2015 **Putting a Number on the Harm of Death, Saving Lives from the Badness of Death**, University of Oslo. 21 June 2015
- 2015 **Prioritarianism for Global Health Investments**, Invited Speaker Series, Johns Hopkins Berman Institute of Bioethics. 23 February 2015
- 2014 **NIH Guidance on Post-trial Access to Antiretroviral Treatment**, Post-Trial Responsibilities: Ethics and Implementation, Petrie-Flom Center, Harvard Law School, 18 September 2014
- 2014 **Valuing Stillbirths**, World Congress of Bioethics, Mexico City, 26 June 2014
- 2014 **The New Declaration of Helsinki: Ethical Principles for Research on Human Subjects from the World Medical Association**, Pan-American Health Organization (PAHO), Washington, DC, 12 June 2014
- 2014 **The ethics of Transactions in an Unjust World**, Sharing Bodies Within and Across Borders Symposium, Swedish Collegium for Advanced Study and Linköping University, Sweden, 23 May 2014
- 2013 **The Declaration of Helsinki: 2013 Revisions**, Public Responsibility in Medicine and Research (PRIM&R) Advancing Ethical Research Conference, Boston, MA, 6 November 2013
- 2013 **Two Approaches to Measuring How Bad It Is to Die**, American Society for Bioethics & Humanities, Atlanta, GA, 27 October 2013

- 2013 **The Informational Requirements for Informed Consent** (with Danielle Bromwich), Workshop on Frontiers of Informed Consent, Northeastern University, Boston, MA, 29 September 2013
- 2013 **Problems with acquired potential accounts of the badness of death**, Priorities in Global Health 2020, University of Pennsylvania, 7 May 2013
- 2013 **Two Approaches to Assessing How Bad it is to Die**, Three Rivers Philosophy Conference, University of South Carolina, 12 April 2013
- 2012 **Methodological necessity and the justification of placebo-controlled trials**, American Society for Bioethics & Humanities, Washington, DC, 21 October 2012
- 2012 **Ethical Relativism and International Health Research**, Schulman Associates IRB, Cincinnati Children's Hospital Medical Center, University of Cincinnati, and University of Kentucky, 5 October 2012
- 2012 **Parental Rights: How and What**, Department of Philosophy Colloquium, Dalhousie University, 17 August 2012
- 2012 **Methodological necessity and the justification of placebo-controlled trials**, World Congress of Bioethics, Rotterdam, 28 June 2012
- 2012 **Valuing Life-years Gained at Different Ages**, Priorities in Global Health 2020, University of Bergen, Norway, 24 June 2012
- 2012 **Individual Obligations and Global Health**, 32nd Annual Philosophy Symposium, Salisbury University, MD, 5 May 2012
- 2012 **Manipulation and the Recruitment of Participants for Medical Research** (with Amulya Mandava), Workshop in Applied Ethics and Policy, Bowling Green State University, OH, 17 March 2012
- 2011 **Consent Under Pressure: Third Party Coercion and Medical Research**, Speaker Series in Applied Philosophy, University of Massachusetts – Boston, 4 November 2011
- 2011 **Should physicians always refuse to force feed hunger strikers?**, American Society for Bioethics & Humanities, Minneapolis, MN, 16 October 2011
- 2011 **Consent Under Pressure**, University of KwaZulu-Natal, South Africa, 21 June 2011

- 2010 **How Should Fair Benefit-Sharing Arrangements be Decided?**, World Congress of Bioethics, Singapore, 28 July 2010
- 2010 **Global Justice and Bioethics**, 2nd Horiba GABEX International Conference, Facing the Global Challenges in Bioethics, University of Tokyo, 11 January 2010
- 2008 **International Bioethics Capacity Building**, Public Responsibility in Medicine and Research (PRIM&R), Advancing Ethical Research Conference, Orlando, FL, 17 November 2008
- 2008 **Parental Work and Parental Rights**, Bearing And Rearing Children: The Ethics Of Procreation And Parenthood, University of Cape Town, South Africa, 27 May 2008
- 2008 **Filial Duties of Care**, American Philosophical Association Pacific Division Annual Meeting, Los Angeles, CA, 20 March 2008
- 2007 **Obligations to Participants in Research Trials in Developing Countries**, American Society of Tropical Medicine and Hygiene 56th Annual Meeting, 5 November 2007
- 2007 **How to be a Responsible Parent**, Society for Applied Philosophy Annual Conference, University of Manchester, UK, 30 June 2007
- 2007 **How Do We Acquire Parental Responsibilities?**, Canadian Philosophical Association Annual Conference, University of Saskatchewan, 29 May 2007
- 2006 **An Investment Theory of Parenthood**, Western Canadian Philosophical Association Annual Conference, University of British Columbia, 14 October 2006
- 2006 **The Incest Prohibition: A Counter-example to Evolutionary Naturalism**, Canadian Philosophical Association Annual Congress, York University, 30 May 2006
- 2005 **Moral vs. Biological Explanations**, Canadian Philosophical Association Annual Congress, University of Western Ontario, 31 May 2005
- 2005 **Moral Realism and Natural Kinds**, American Philosophical Association Central Division Annual Meeting, Chicago, IL, 28 April 2005
- 2004 **A Functional Foot?**, Canadian Philosophical Association Annual Congress, University of Manitoba, 1 June 2004

- 2003 **How to Derive a Moral 'Ought' from a Biological 'Is'**, Canadian Philosophical Association Annual Congress, Dalhousie University, 1 June 2003
- 2003 **The Harm of Moral Distress**, The International Society for Utilitarian Studies: Utilitarianism, Human Rights and Globalization, Lisbon, 13 April 2003

SERVICE & AWARDS

Service at the National Institutes of Health

2007 – present	Member, Trans-NIH Bioethics Committee
2008 – present	Attending Consultant, Bioethics Consultation Service, Clinical Center
2008 – present	Member, Clinical Center Ethics Committee
2009 – present	Member, Combined Neurosciences Institutional Review Board (Blue Panel)
2012 – present	Alternate member, Combined Neurosciences Institutional Review Board (White Panel)
2013 – present	Member, Coordinating Committee for Bioethics Research & Training
2015 – present	Alternate member, Combined Neurosciences Institutional Review Board (Purple Panel)
2016 – present	Member, Working Group for Methods and Measurement Science in Health Disparities, National Institute on Minority Health and Health Disparities
2016 – present	Member, Working group for the Trans-NIH Minority Health and Health Disparities Strategic Plan
2017 - present	Leader, Working Group on Ethics of Emergency Care Research, Center for Global Health Studies, Fogarty International Center
2008 – 2010	Member, TNBC Data and Specimen sub-committee
2007 – 2008	Fellow, Bioethics Consultation Service, Clinical Center

Professional service and memberships

2006-present	Referee: <i>Journal of Medical Ethics, Southern Journal of Philosophy, Social Theory & Practice, American Journal of Public Health, Bioethics, Journal of Moral Philosophy, Public Affairs Quarterly, Clinical Trials, Journal of Nervous and Mental Disease, American Journal of Bioethics, IRB: Ethics & Human Research, Hastings Center Report, Journal of Political Philosophy, Journal of Applied Philosophy, Ethics</i>
2013-2014	American Society for Bioethics and Humanities, Philosophy Subcommittee
2007 – 2009	Steering Committee, Global Forum for Bioethics in Research
2004 – 2008	Member, American Philosophical Association
2003 – 2007	Member, Canadian Philosophical Association
2001-2004	Organizing Committee Member and Referee, University of Toronto Annual Graduate Conference in Philosophy

Awards

2005	Nomination: TATP Teaching Assistants Excellence Award
2004	1st Place, Canadian Philosophical Association Student Essay Prize
2004	Winner, Martha Lile Love Teaching Award, Department of Philosophy, University of Toronto
2002-2004	George Paxton Young Memorial prize, University of Toronto
2000-2001	Beatty Fellowship, University of Toronto
1999	University of Edinburgh Philosophy of Science Prize
1999	University of Edinburgh Moral Philosophy Prize
1998	Bruce of Grange Scholarship to study at Dartmouth College, NH
1997	University of Edinburgh Logic Prize

TEACHING

Supervision

Current mentees at Clinical Center Department of Bioethics: Leah Pierson, BA.

Past mentees at Clinical Center Department of Bioethics: Chiara Lepora, MD (2008-2010); Amulya Mandava, BA (2010-2012); Christina Rulli, PhD (2011-2013); Daniel Sharp, BA (2012-2014), Jessica du Toit, MA (2013-2015); Tyler John, BA (2014-2016).

Ph.D. supervisee: Nicola Barsdorf, MA MSc PhD (2009-2011)

Workshops & Individual Classes

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|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 – 2015 | Introduction to Global Health, Fogarty International Center, global health ethics |
| 2013 – present | NIH Clinical Center Nursing Department, bioethics consultation |
| 2009 – present | Fogarty International Clinical Research Scholars/Fellows Program, introduction to research ethics |
| 2007 – present | Ethical & Regulatory Aspects of Human Subjects Research, NIH Clinical Center, international research ethics |
| 2008 – present | Individual classes and training sessions at US institutions, Including: <ul style="list-style-type: none"> • Division of AIDS, National Institute on Allergy and Infectious Diseases • National Cancer Institute • PRIM&R Advanced Research Ethics Workshop • George Washington University |
| 2007 - present | International workshops on research ethics for bioethics researchers, health researchers, ethics committee members, and government officials in Brazil, China, Mali, Mexico, Vietnam, Philippines, Singapore, Peru, Indonesia, Japan, South Africa. |

Course Instructor (University of Toronto)

Spring 2006	Topics in Ethical Theory
Fall 2005	Philosophy of Science
Spring 2004	Science and Pseudo-science
Fall 2003	Philosophy of Science

Teaching Assistant (University of Toronto)**Tutorial Leader**

Summer 2005	Ethics, Genetics and Reproduction
2004 – 2005	Bioethics
Summer 2003	Introduction to Philosophy
Spring 2003	Science and Social Issues
2002 – 2003	Introduction to Philosophical Problems
Summer 2002	Modern Symbolic Logic
2001 – 2002	Introduction to Philosophical Problems

Grading

Grading in formal logic, critical reasoning, and all of the above listed courses.

Teacher training (University of Toronto)

Teaching in Higher Education. A semester-long course dealing with all aspects of pedagogy in universities.