JUSTIN B. BIDDLE
SCHOOL OF PUBLIC POLICY
GEORGIA INSTITUTE OF TECHNOLOGY

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Justin B. Biddle
Associate Professor
School of Public Policy

I.   Earned Degrees

- Ph.D., History and Philosophy of Science, University of Notre Dame, USA, *summa cum laude* (July 2006)

- M.A., History and Philosophy of Science, University of Notre Dame, USA, *summa cum laude* (August 2005)

- B.S., Physics, University of Dayton, USA, *summa cum laude* (May 1999)

- B.A., Philosophy, University of Dayton, USA, *summa cum laude* (May 1999)

II.   Employment History

- Associate Professor, School of Public Policy, Georgia Institute of Technology, (March 2015 – present)

- Assistant Professor, School of Public Policy, Georgia Institute of Technology, (August 2009 – March 2015)

- Postdoctoral Fellow (*Wissenschaftlicher Mitarbeiter*), Department of Philosophy, Bielefeld University, Germany (April 2006 – July 2009)

III.   Honors and Awards

- Distinguished Fellow at the Notre Dame Institute for Advanced Study (Spring 2014)

- Fellow in Philosophy of Science, Bielefeld University, Bielefeld, Germany (Summer 2012)

- Fellow in Philosophy of Science, Bielefeld University, Bielefeld, Germany (Summer 2011)

- Finalist, Greenwall Foundation Faculty Scholars Program in Bioethics (2010-2011)

- National Institutes of Health (NIH) Postdoctoral Fellowship (2009-2011). Declined in order to accept a position at Georgia Tech.

- Fellow of the German Research Foundation (DFG) Research Group on Science in the Context of Application, Center for Interdisciplinary Research, Bielefeld University, Bielefeld, Germany (2006-2007)

- Edward Sorin Postdoctoral Fellowship, College of Arts and Sciences, University of Notre Dame (2006-2008). Declined in order to accept a position at Bielefeld University.

- National Science Foundation Graduate Research Fellowship (2001-2004)

- Presidential Fellowship for Graduate Study, University of Notre Dame (2000-2006)

IV. Research, Scholarship, and Creative Activities

A. Published Books, Book Chapters, and Edited Volumes

A1. Books
No data

A2. Refereed Book Chapters

1. Biddle, J. and E. Winsberg (each author contributed equally) (2010). "Value Judgements and the Estimation of Uncertainty in Climate Modeling." In *New Waves in Philosophy of Science*, P.D. Magnus and J. Busch, eds. Basingstoke, Hampshire: Palgrave MacMillan: 172-197. Reviewed by editors and external reviewers, not blinded.

2. Biddle, J. (2011). "Bringing the Marketplace into Science: On the Neoliberal Defense of the Commercialization of Scientific Research." In *Boston Studies in Philosophy of Science, Volume 274: Science in the Context of Application*, M. Carrier and A. Nordmann, eds. Dordrecht: Springer: 245-269. Reviewed by editors and external reviewers, not blinded.

3. Biddle, J. (2015). "Intellectual Property in the Biomedical Sciences." In *Routledge Companion to Bioethics*, R. Kukla, J. Arras, and E. Fenton, eds. London: Routledge: 149-161. Reviewed by editors and external reviewers, not blinded.

4. Biddle, J. and R. Kukla (2017). "The Geography of Epistemic Risk." In *Exploring Inductive Risk*, K. Elliott and T. Richards, eds. Oxford: Oxford University Press: 215-237. Reviewed and editors and external reviewers, not blinded.

5. **Schiff, D.**, K. Laas, J. Biddle, and J. Borenstein (accepted/forthcoming). "Global AI Ethics Documents: What They Reveal About Motivations, Practices, and Policies." In K. Laas, M. Davis, & E. Hildt (Eds.), *Codes of Ethics and Ethical Guidelines, Emerging Technologies, Changing Fields*. Springer. Reviewed and editors and external reviewers, not blinded.

A3. Edited Volumes
No data

B. Refereed Publications and Submitted Articles

B1. Published and Accepted Journal Articles

1. Biddle, J. (2007). "Lessons from the Vioxx Debacle: What the Privatization of Science Can Teach Us about Social Epistemology." *Social Epistemology* 21: 21-39.

2. Biddle, J. (2009). "Advocates or Unencumbered Selves? On the Role of Mill's Political Liberalism in Longino's Contextual Empiricism." *Philosophy of Science* 76: 612-623.

3. Biddle, J. (2011). "Putting Pragmatism to Work in the Cold War: Science, Technology, and Politics in the Writings of James B. Conant." *Studies in History and Philosophy of Science* 42: 552-561.

4. Biddle, J. (2012). "Tragedy of the Anticommons? Intellectual Property and the Sharing of Scientific Information." *Philosophy of Science* 79: 821-832.

5. Biddle, J. (2013). "State of the Field: Transient Underdetermination and Values in Science." *Studies in History and Philosophy of Science* 44: 124-133.

6. Biddle, J. (2013). "Institutionalizing Dissent: A Proposal for an Adversarial System of Pharmaceutical Research." *Kennedy Institute of Ethics Journal* 23: 325-353.

7. Biddle, J. (2014). "Can Patents Prohibit Research? On the Social Epistemology of Patenting and Licensing in Science." *Studies in History and Philosophy of Science* 45: 14-23.

8. Biddle, J. and A. Leuschner (2015). "Climate Skepticism and the Manufacture of Doubt: Can Dissent in Science be Epistemically Detrimental?" *European Journal for Philosophy of Science* 5: 261-278.

9. Biddle, J. (2016). "Inductive Risk, Epistemic Risk, and Overdiagnosis of Disease." *Perspectives on Science* 24(2): 192-205.

10. Biddle, J. (2016). "Intellectual Property Rights and Global Climate Change: A Dilemma." *Ethics, Policy & Environment* 19(3): 310-319.

11. Biddle, J. (2017). "Genetically Engineered Crops and Responsible Innovation." *Journal of Responsible Innovation* 4(1): 24-42.

12. Biddle, J., I.J. Kidd, and A. Leuschner (2017). "Epistemic Corruption and Manufactured Doubt: The Case of Climate Science." *Public Affairs Quarterly* 31(3): 165-187.

13. Biddle, J. (2018). "'Antiscience Zealotry'? Values, Epistemic Risk, and the GMO Debate." *Philosophy of Science* 85: 360-379.

14. Biddle, J. (2020). "Epistemic Risks in Cancer Screening: Implications for Ethics and Policy." *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*. DOI: https://doi.org/10.1016/j.shpsc.2019.101200

15. Biddle, J. (in press, published online). "On Predicting Recidivism: Epistemic Risk, Tradeoffs, and Values in Machine Learning." *Canadian Journal of Philosophy*. DOI: http://doi.org/10.1017/can.2020.27

16. **Schiff, D.**, J. Borenstein, J. Biddle, and K. Laas. "AI Ethics in the Public, Private, and NGO Sectors: A Review of a Global Document Collection." *IEEE Transactions on Technology and Society*.

B2. Conference Presentation with Proceedings (Refereed)

1. **Schiff, D.**, J. Biddle, J. Borenstein, and K. Laas (2020). "What's Next for AI Ethics, Policy, and Governance? A Global Overview." In *AIES'20: Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society*, pp. 153-158. https://doi.org/10.1145/3375627.3375804

B3. Other Refereed Material
No data

B4. Submitted Journal Articles (with Date of Submission)
No data

C. Other Publications and Creative Products

1. Biddle, J. (2008). "Adversarial Systems and the Privatization of Biomedical Research: An Epistemic Evaluation." Contingency and Dissent in Science Project, Center for Philosophy of Natural and Social Science, London School of Economics and Political Science. Technical Report 02/09.

2. Biddle, J. (2010). Review of J. Forge, *The Responsible Scientist: A Philosophical Inquiry*. Pittsburgh: University of Pittsburgh Press. *Isis* 101(4): 933.

3. Biddle, J. (2014). Review of A. Lever, ed., *New Frontiers in the Philosophy of Intellectual Property*. Cambridge: Cambridge University Press. *Journal of Responsible Innovation* 1(3): 331-335.

4. Biddle, J. (2015). "Tragedy of the Anticommons." In *Ethics, Science, Technology, and Engineering: A Global Resource*, J. B. Holbrooke, ed. Volume 2, 2nd edition. Farmington Hills, MI: Macmillan Reference USA: 572. Editorially reviewed.

5. Biddle, J. (2015). "Values in Science." In *Ethics, Science, Technology, and Engineering: A Global Resource*, J. B. Holbrooke, ed. Volume 4, 2nd edition. Farmington Hills, MI: Macmillan Reference USA: 485-488. Editorially reviewed.

6. Biddle, J. (2016). Review of P. Gøtzsche, *Deadly Medicines and Organised Crime: How Big Pharma has Corrupted Healthcare*. CRC Press. *Kennedy Institute of Ethics Journal*. Available at <https://kiej.georgetown.edu/book-reviews/archive/gotzsche-2013/>.

D. Presentations

D1. Keynote Lectures and Invited Presentations

1. Biddle, J. (2002). "Issues in Science and Ethics." Research Experience for Undergraduates (REU) program, Smithsonian Environmental Research Center, Edgewater, Maryland. 2 August.

2. Biddle, J. (2006). "On the Connections between Social Epistemology and Science Policy." Center for Interdisciplinary Research (*ZiF*), Bielefeld University, Bielefeld, Germany. 21 November.

3. Biddle, J. (2007). "On the Epistemic Import of the Privatization of Science." Department of Philosophy, University of Dayton, Dayton, Ohio. 16 February.

4. Biddle, J. (2007). Invited Commentary on Daniel Kleinman, "Life in American Academia in the Age of Neoliberalism." International Workshop on "The Commodification of Academic Research: Analyses, Assessments, Alternatives," Vrije Universiteit, Amsterdam, The Netherlands. 21-23 June.

5. Biddle, J. (2008). "Advocates or Unencumbered Selves? On the Role of Mill's Political Liberalism in Longino's Sociopragmatism." Department of Philosophy, University of South Carolina, Columbia, South Carolina. 18 February.

6. Biddle, J. and E. Winsberg (2008). "Values and Climate Models." 35th Annual Meeting of the Philosophy of Science Conference at the Inter-University Centre in Dubrovnik, Croatia. 14-19 April.

7. Biddle, J. (2008). "Advocates or Unencumbered Selves? On the Role of Mill's Political Liberalism in Longino's Sociopragmatism." International Workshop on Science and Values, Bielefeld University, Bielefeld, Germany. 8-9 July.

8. Biddle, J. (2008). "Advocates or Unencumbered Selves? On the Role of Mill's Political Liberalism in Longino's Contextual Empiricism." International Workshop on Collective Epistemology, University of Basel, Basel, Switzerland. 3-5 October.

9. Biddle, J. (2008). "Institutionalizing Skepticism: Adversarial Proceedings for the Evaluation of Pharmaceuticals." Presented at the workshop, "Institutionalising Epistemic Standards for Science," Centre for Philosophy of Natural and Social Science, London School of Economics, London, England. 1-2 December.

10. Biddle, J. (2008). "Institutionalizing Skepticism: Adversarial Proceedings for the Evaluation of Pharmaceuticals." Department of Philosophy and Religion Studies, University of North Texas, Denton, Texas. 8 December.

11. Biddle, J. (2009). "Science, Values and the Specter of Lysenkoism." Department of Philosophy, Lafayette College, Easton, Pennsylvania. 8 January.

12. Biddle, J. (2009). "Transient Underdetermination and Values in Science." Center for Philosophy and Ethics of Science at the Leibniz University of Hannover, Hannover, Germany. 13 January.

13. Biddle, J. (2009). "Transient Underdetermination and Values in Science." Department of Philosophy, West Virginia University, Morgantown, West Virginia. 26 January.

14. Biddle, J. (2009). "Transient Underdetermination and Values in Science." School of Public Policy, Georgia Institute of Technology, Atlanta, Georgia. 11 February.

15. Biddle, J. (2009). "Bringing the Marketplace into Science: On the Neoliberal Defense of the Commercialization of Scientific Research." Department of Philosophy and Religious Studies, Iowa State University, Ames, Iowa. 17 February.

16. Biddle, J. (2009). "Collective Responsibility for Harm: Clinical Practice Guidelines, Conflicts of Interest, and the Principle of Nonmaleficence." Spring School on Science and Values, Bielefeld University and the Center for Interdisciplinary Research (ZiF), Bielefeld, Germany. 20-24 April.

17. Biddle, J. (2009). "Transient Underdetermination and Values in Science." Department of Philosophy and Ethics, Technische Universiteit Eindhoven, Eindhoven, The Netherlands. 19 October.

18. Biddle, J. (2011). "Intellectual Property in Biotechnology: Philosophical and Policy Perspectives." Institute for Science and Technology Studies (*Institut für Wissenschaft und Technik Forschung*), Bielefeld University, Bielefeld, Germany. 27 June.

19. Biddle, J. (2011). "Transient Underdetermination, Value Freedom, and the Ideal of Epistemic Purity." Department of Philosophy, Bielefeld University, Bielefeld, Germany. 12 July.

20. Biddle, J. (2012). "Global Climate Change and Food Security." Institute for Ethics and Public Affairs, Old Dominion University, Norfolk, Virginia. 29 March.

21. Biddle, J. (2012). "Intellectual Property Rights and Innovation in Pharmaceutical Research." Center for Interdisciplinary Research (ZiF), Bielefeld, Germany. 6 June.

22. Biddle, J. (2012). "Intellectual Property in Biomedicine and Biotechnology: An Inducement to Ignorance?" Center for Interdisciplinary Research (ZiF), Bielefeld, Germany. 11 June.

23. Biddle, J. (2014). "Intellectual Property Rights in Science and Technology: Implications for Epistemology and Ethics." Notre Dame Institute for Advanced Study, University of Notre Dame, Notre Dame, Indiana. 25 February.

24. Biddle, J. (2014). "Genetically Modified Crops, Hunger, and Climate Adaptation." Invited lecture given at the Notre Dame Institute for Advanced Study, University of Notre Dame, Notre Dame, Indiana. 16 April.

25. Biddle, J. (2014). "Intellectual Property Rights and Global Climate Change: A Dilemma." Invited lecture given at the History and Philosophy of Science Colloquium, University of Notre Dame, Notre Dame, Indiana. 25 April.

26. Biddle, J. (2014). "On the Ethics and Epistemology of Intellectual Property Rights in Science and Technology." Invited lecture given at the workshop, "Science Policy

Interface: International Comparisons," University of Waterloo, Waterloo, Canada. 21-23 May.

27. Biddle, J. (2015). "Erring on the Side of Caution? Toward a More Nuanced Account of Risks in Science and Medicine." Invited lecture given at the Leibniz Universität Hannover, Hannover, Germany. 8 July.

28. Biddle, J. (2015). "Climate Skepticism and the Manufacture of Doubt: Can Dissent in Science be Epistemically Detrimental?" Invited lecture given at the international workshop, The Epistemic Role of Manufactured Dissent in Climate Science, Karlsruhe Institut für Technologie, Karlsruhe, Germany. 28-29 October.

29. Biddle, J. (2017). "Epistemic Risks in Prostate Cancer Screening: Implications for Ethics and Policy." Invited lecture given at Cambridge University, Cambridge, England. 13 December.

30. Biddle, J. (2018). "'Antiscience Zealotry?' Values, Epistemic Risk, and the GMO Debate." Invited lecture given at North Carolina State University, Raleigh, North Carolina. 18 September.

31. Biddle, J. (2019). "Reflections on Algorithmic Bias and the Use of Algorithms in Criminal Sentencing." Invited lecture given at the international workshop, "Engaging with Science, Values, and Society," University of Alberta, Edmonton, Canada. 8-10 May.

32. Biddle, J. (2019). "Epistemic Risk, Citizen Science, and the Debate Over Algorithms in Criminal Sentencing in the United States." Invited lecture given at the international workshop, "Citizen Science: New Epistemological, Ethical, and Political Challenges," Université Jean Moulin Lyon 3, Lyon, France. 6-7 June.

33. Biddle, J. (2020). "Artificial Intelligence, Epistemic Risk, and Racial Injustice: A Case Study on Algorithms in Criminal Sentencing." Invited keynote lecture to be given at the Mid-South Philosophy of Science Meeting, Virginia Tech, Blacksburg, Virginia. 3-4 April 2020. Canceled due to the COVID-19 pandemic.

34. Biddle, J. "Artificial Intelligence and Racial Injustice: A Case Study on Algorithms in Criminal Sentencing." Invited keynote address, Symposium on Values in Medicine, Science, and Technology, University of Texas at Dallas, June 26, 2020.

35. Biddle, J. "On Predicting Criminality: Epistemic Risk, Values, and Racial Justice in Machine Learning," Invited lecture given to the University of Aarhus, Aarhus, Denmark, March 18, 2021.

D2. Refereed Conference Presentations

1. Biddle, J. (2005). "The Epistemic Significance of the Institutional Context of Science: The Case of Vioxx." International Conference on "Science, Democracy, and Economics," Universidad Nacional de Educación a Distancia, Madrid, Spain. 11-13 April.

2. Biddle, J. (2006). "On Privatizing Science: Is Vioxx a Sign of Things to Come?" International Conference on "The Commerce and Politics of Science," University of Notre Dame, Notre Dame, Indiana, USA. 21-24 September.

3. Biddle, J. (2006). "Why Transient Underdetermination Matters: Values and Social Organization in Kitcher's *Science, Truth, and Democracy*." 20th Biennial Meeting of the Philosophy of Science Association, Vancouver, Canada. 2-5 November.

4. Biddle, J. (2007). "Nonmaleficence and the Privatization of Biomedical Research." Conference of this International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), University of Exeter, Exeter, UK. 25-29 July.

5. Biddle, J. (2007). "Collective Responsibility for Harm: On the Principle of Nonmaleficence." 13th International Congress of Logic, Methodology, and Philosophy of Science, Tsingua University, Beijing, China. 9-15 August.

6. Biddle, J. (2007). "On the Ambiguously Social Character of Longino's Theory of Science." 1st Meeting of the European Philosophy of Science Association, Universidad Complutense de Madrid, Madrid, Spain. 15-17 November.

7. Biddle, J. (2008). "'Science is not a quest for certainty': On James B. Conant's Pragmatic Theory of Science." 7th Congress of the International Society for the History of the Philosophy of Science (HOPOS), Vancouver, Canada. 18-21 June.

8. Biddle, J. (2008). "Organisational Perspectives on Nonmaleficence: Clinical Practice Guidelines and Conflicts of Interest." Conference on Judgment, Assessment, and Decision Making in Health and Social Care, School of Nursing, Dublin City University, Dublin, Ireland. 3-4 September.

9. Biddle, J. (2008). "Advocates or Unencumbered Selves? On the Role of Mill's Political Liberalism in Longino's Sociopragmatism." 21st Biennial Meeting of the Philosophy of Science Association, Pittsburgh, Pennsylvania. 6-8 November.

10. Biddle, J. (2008). "'Science is not a quest for certainty': On James B. Conant's Pragmatic Theory of Science." Presented in the symposium, "Pragmatism at the Interface of Science and Politics," at the 21st Biennial Meeting of the Philosophy of Science Association, Pittsburgh, Pennsylvania. 6-8 November.

11. Biddle, J. (2009). "Transient Underdetermination and Values in Science." European Science Foundation (ESF) – Center for Interdisciplinary Research (ZiF) – Bielefeld University Conference on "Science and Values: The Politicization of Science," Bielefeld, Germany. 25-30 May.

12. Biddle, J. (2009). "Transient Underdetermination and Values in Science." 2nd Biennial Conference of the Society for the Philosophy of Science in Practice (SPSP), University of Minnesota, Minneapolis, Minnesota. 18-20 June.

13. Biddle, J. (2009). "Transient Underdetermination and Values in Science." 2nd Biennial Meeting of the European Philosophy of Science Association, Vrije Universiteit, Amsterdam, The Netherlands. 21-24 October.

14. Biddle, J. (2010). "Does Commercialization Inhibit the Sharing of Information?" Presented in the symposium "Philosophy of Commercialized Science," at the 22nd Biennial Meeting of the Philosophy of Science Association, Montreal, Canada. 4-6 November.

15. Biddle, J. (2011). "Intellectual Property and the Public Benefits of Biomedical Research." Three Rivers Philosophy (TRiP) 2011 conference, "Science, Knowledge, and Democracy," at the University of South Carolina, Columbia, South Carolina. 1-3 April.

16. Biddle, J. (2011). "Intellectual Property and the Sharing of Scientific Information." Presented in the symposium "The Social Organization of Research and the Flow of Scientific Information," at the 3rd Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), University of Exeter, Exeter, UK. 22-24 June.

17. Biddle, J. (2011). "Intellectual Property and the Sharing of Scientific Information." Presented in the symposium "The Social Organization of Research and the Flow of Scientific Information," at the 3rd Biennial Meeting of the European Philosophy of Science Association, University of Athens, Athens, Greece. 5-8 October.

18. Biddle, J. (2012). "GM Foods and Adaptation to Climate Change." Presented in the symposium "Science-Policy Interactions and Social Values," at the Center for Values in Medicine, Science and Technology at the University of Texas at Dallas, Richardson, Texas. 13-14 April.

19. Biddle, J. (2013). "Knowledge, Ignorance, and Intellectual Property Rights: The Case of GM Seeds," at the 1st Annual Workshop on Food Justice and Peace: "Bringing Theory and Practice Together," at Michigan State University, East Lansing, Michigan. 12-13 April.

20. Biddle, J. (2013). "Knowledge, Ignorance, and Intellectual Property Rights: The Case of GM Seeds," at the 4th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), University of Toronto, Toronto, Canada. 26-29 June.

21. Biddle, J. (2013). "Knowledge, Ignorance, and Intellectual Property Rights: The Case of GM Seeds." Presented at the 18th International Conference of the Society for Philosophy and Technology (SPT), Technical University of Lisbon, Lisbon, Portugal. 4-6 July.

22. Biddle, J. (2013). "Inductive Risk, Epistemic Risk, and Overdiagnosis of Disease." Presented at the 15th annual meeting of the American Society for Bioethics and Humanities (ASBH), Atlanta, Georgia. 24-27 October 2013.

23. Biddle, J. (2014). "Intellectual Property Rights and Global Climate Change: An Ethical/Epistemological Dilemma." Presented at the 1st Meeting of the Socially Relevant

Philosophy of/in Science and Engineering (SRPoiSE), University of Waterloo, Waterloo, Canada. 9-12 June.

24. Biddle, J. (2014). "Naturalism, Values, and the Social Organization of Research." Presented at the 24th Biennial Meeting of the Philosophy of Science Association, Chicago, Illinois. 6-9 November.

25. Biddle, J. (2015). "Genetically Engineered Crops and Responsible Innovation." Presented at the 2nd Annual Meeting of the Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE), Michigan State University Detroit Center, Detroit, Michigan. 27-28 March.

26. Biddle, J. (2015). "Inductive Risk, Epistemic Risk, and Overdiagnosis of Disease." Presented at the 5th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), Aarhus University, Aarhus, Denmark. 24-26 June.

27. Biddle, J. (2015). "Inductive Risk, Epistemic Risk, and Overdiagnosis of Disease." Presented at the 15th Congress of Logic, Methodology and Philosophy of Science, Helsinki, Finland. 3-8 August.

28. Biddle, J., I.J. Kidd, and A. Leuschner (2016). "Can Criticism in Science Be Epistemically Detrimental?" Presented at the 6th Annual Meeting of the Center for Values in Medicine, Science and Technology and the 3rd Meeting of the Consortium for Socially Responsible Philosophy of/in Science and Engineering (SRPoiSE), University of Texas at Dallas, Richardson, Texas. 19-22 May.

29. Biddle, J. and R. Kukla (2016). "From Inductive Risk to Epistemic Risk." Presented at the 6th Annual Meeting of the Center for Values in Medicine, Science and Technology and the 3rd Meeting of the Consortium for Socially Responsible Philosophy of/in Science and Engineering (SRPoiSE), University of Texas at Dallas, Richardson, Texas. 19-22 May.

30. Biddle, J. and R. Kukla (2016). "From Inductive Risk to Epistemic Risk." Presented at the 6th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), Rowan University, Glassboro, New Jersey. 17-19 June.

31. Biddle, J. and R. Kukla (2016). "The Geography of Epistemic Risk." Presented at the 25th Biennial Meeting of the Philosophy of Science Association (PSA), Atlanta, Georgia. 3-5 November.

32. Biddle, J. (2017). "Is Criticism of Biotechnology 'Antiscientific'? Science, Values and the GMO Debate." Presented at the 7th Annual Conference on Values in Medicine, Science, and Technology, University of Texas at Dallas, Richardson, Texas. 18-20 May.

33. Biddle, J. (2018). "Epistemic Risks in Prostate Cancer Screening: Implications for Ethics and Policy." Presented at the 4th Meeting of the Consortium for Socially Responsible Philosophy of/in Science and Engineering (SRPoiSE), Georgia Institute of Technology, Atlanta, Georgia. 4-6 June.

34. Biddle, J. (2018). "Epistemic Risks in Prostate Cancer Screening: Implications for Ethics and Policy." Presented at the 7th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), University of Ghent, Ghent, Belgium. 29 June – 2 July.

35. Biddle, J. (2018). "Epistemic Risks in Prostate Cancer Screening: Implications for Ethics and Policy." Presented at the 26th Biennial Meeting of the Philosophy of Science Association (PSA), Seattle, Washington. 1-4 November.

36. Schiff, D., J. Biddle, J. Borenstein, and K. Laas. "What's Next for AI Ethics, Policy, and Governance? A Global Overview." AAAI/ACM Conference on AI, Ethics, and Society. New York City, New York. February 9, 2020.

37. Biddle, J. "Artificial Intelligence and Racial Injustice: A Case Study on Algorithms in Criminal Sentencing." 2020 Annual International Conference of the Association for Practical and Professional Ethics (APPE), Atlanta, Georgia. February 20-23, 2020.

38. Schiff, D., K. Laas, J. Borenstein, and J. Biddle. "Global Perspectives on Artificial Intelligence Ethics and Policy: Findings from a Review of International Documents." 2020 Annual International Conference of the Association for Practical and Professional Ethics (APPE), Atlanta, Georgia. February 20-23, 2020.

39. Biddle, J. "Unbiased Algorithms in a Biased Society? Epistemic Risk and Value Judgments in the Design of Recidivism-Prediction Tools." Originally scheduled to be presented at the 2020 Philosophy of Social Science Roundtable, Emory University, Atlanta, Georgia. March 13-15, 2020. Canceled due to the COVID-19 pandemic.

40. Chaviano, Casey, Roberta Berry, Justin Biddle, Colin Potts, and Jason Wang. "LEAP in Action: Using Adapted VALUE Rubrics in the Intentional Design of a Pilot Course on 'Thinking'." Originally scheduled to be presented at the 2020 University System of Georgia Teaching and Learning Conference: Best Practices for Promoting Engaged Student Learning, University of Georgia, Athens, Georgia, April 7-9, 2020. Canceled due to the COVID-19 pandemic.

41. Biddle, J. "Artificial Intelligence and Racial (In)Justice." Online Conference of the Georgia Philosophical Society: Philosophical Perspectives on Contemporary Problems. March 25, 2021.

E.   Grants and Contracts

E1. As Principal Investigator
- Georgia Tech Foundation, Ivan Allen College Faculty Foundation Grant, $3,000 (2009-2010 Academic Year)
- Georgia Tech Foundation, Ivan Allen College Faculty Foundation Grant, $3,000 (2011-2012 Academic Year)
- Georgia Tech Foundation, Ivan Allen College Faculty Foundation Grant, $3,000 (2012-2013 Academic Year)

- Ivan Allen College Incentives for Seeking Extramural Research Funding (ISERF), Category I, $2,500 (Summer 2010)
- Ivan Allen College Professional Development Training Program, $2,500 (Summer 2012)
- Georgia Tech Foundation, Ivan Allen College Faculty Foundation Grant, $3,000 (2017-2018 Academic Year)
- "Incorporating Equity into Computing Systems." Public Interest Technology Network, $5,000 (2019-2020 Academic Year)

E2. As Co-Principal Investigator

1. "Engineering Ethics and the Iraq Higher Education Partnership Program" (PI, Jason Borenstein). United States Department of State/IREX. December 2020 – July 2021, $40,956.

E3. As Senior Personnel or Contributor

- Contributor to "Piloting the Next in General Education." GT FIRE Grant (Co-PIs, Roberta Berry and Colin Potts), 2018-2019.

E4. Pending Proposals

- "Decision Making at Massive Scales: Fusing Artificial Intelligence and Mathematical Optimization, "National Science Foundation Artificial Intelligence(AI) Institute, PI: Pascal van Hentenryck. Submitted: December 2020.

E5. Proposals Submitted but Not Funded (Last Two Years)

No data

F. Other Scholarly and Creative Accomplishments

No data

G. Societal and Policy Impacts

- Subject of the feature interview in *The Reasoner* (Volume 8, Number 4), May 2014. Available at <http://thereasoner.org>.
- Subject of an interview in *NDIAS Quarterly* (Volume 2, Number 3, pp. 22-23), Spring 2014. Available at < http://ndias.nd.edu/publications/ndias-quarterly/#.U_Ei7CjTmf8>.

H. Other Professional Activities

No data

V. Education

A. Courses Taught

Semester, Year	Course Number	Course Title	# of Students
Spring 2021	PUBP 6010	Ethics, Epistemology & Public Policy	17
Fall 2020	PHIL 3127-HP	Thinking	13
Fall 2020	PHIL 3115	Philosophy of Science	27
Summer 2020	PHIL 3127	Science, Technology & Human Values	33

Spring 2020	PHIL 3127-HP	Thinking	20
Spring 2020	PHIL 2010	Introduction to Philosophy	31
Fall 2019	PHIL 3115	Philosophy of Science	25
Fall 2019	PHIL 3140	Philosophy of Food	29
Summer 2019	PHIL 3127-R	Science, Technology & Human Values	27
Summer 2019	PHIL 3127-R2	Science, Technology & Human Values	23
Spring 2019	PHIL 3127-R	Science, Technology & Human Values	44
Fall 2018	PHIL 3115	Philosophy of Science	27
Fall 2018	PHIL 3140	Philosophy of Food	33
Summer 2018	PHIL 3127-R	Science, Technology & Human Values	26
Summer 2018	PHIL 3127-R2	Science, Technology & Human Values	26
Spring 2018	PHIL 2010	Introduction to Philosophy	34
Spring 2018	PHIL 3127-HP	Science, Technology & Human Values	18
Fall 2017	PHIL 3115	Philosophy of Science	25
Fall 2017	PHIL 3140	Philosophy of Food	29
Summer 2017	PHIL 3127-R	Science, Technology & Human Values	40
Spring 2017	PHIL 3127-R	Science, Technology & Human Values	42
Fall 2016	PHIL 3115	Philosophy of Science	32
Fall 2016	PHIL 3140	Philosophy of Food	31
Summer 2016	PHIL 3127-R	Science, Technology & Human Values	28
Summer 2016	PHIL 4699-HP	Undergraduate Research	1
Spring 2016	PHIL 2010	Introduction to Philosophy	31
Spring 2016	PHIL 3127-HP	Science, Technology & Human Values	20
Fall 2015	PHIL 3115	Philosophy of Science	32
Fall 2015	PHIL 4803	Philosophy of Food	11
Spring 2015	PHIL 3103	Modern Philosophy	28
Spring 2015	PHIL 2010	Introduction to Philosophy	30
Fall 2014	PHIL 3115	Philosophy of Science	27
Fall 2014	PHIL 4808	Philosophy of Food	13
Fall 2013	PHIL 3115	Philosophy of Science	33
Fall 2013	PHIL 4803	Philosophy of Food	33
Spring 2013	PHIL 2010	Introduction to Philosophy	30
Spring 2013	PHIL 3103	Modern Philosophy	30
Fall 2012	PHIL 3115	Philosophy of Science	31
Fall 2012	PHIL 4803	Philosophy of Food	24
Spring 2012	PHIL 2010	Introduction to Philosophy	31
Spring 2012	PHIL 3103	Modern Philosophy	33
Fall 2011	PST 3115	Philosophy of Science	32
Fall 2011	PST 4803	Philosophy of Food	31
Spring 2011	PST 3103	Modern Philosophy	32
Spring 2011	PST 3115	Philosophy of Science	20
Fall 2010	PST 4174	Perspectives in Science and Technology	30
Fall 2010	PUBP 4803	Commerce, Politics, and Biotechnology	4
Spring 2010	PST 3103	Modern Philosophy	27
Spring 2010	PST 4174	Perspectives in Science and Technology	30
Fall 2009	PST 3115	Philosophy of Science	30

B. Individual Student Guidance

B1. Ph.D. Students
- Sorawit Siangjaeo – GRA (Summer 2021)
- Alejandra Ruiz – GRA for GT Ethics, Technology, and Human Interaction Center (ETHIC^x) (Fall 2020, Spring 2021)

B2. M.S. Students (Indicate Thesis Option for Each Student)
- Natalie McGee – Helped to advise on her MSPP Professional Paper: "The Tragedy of the Anticommons: Intellectual Property Proliferation and Gridlock in the Agricultural Biotechnology Industry" (Spring 2010)

B3. Undergraduate Students
No data

B4. Service on Thesis or Dissertation Committees
- Hillary Alberta-Sherer – Member of her dissertation committee on "Risk Disclosure on Egg Donor Recruitment Advertisements" (September 2016).
- Rebecca Watts Hull – Member of her dissertation committee (Fall 2018).

B5. Mentorship of Postdoctoral Fellows or Visiting Scholars
No data

C. Educational Innovations and Other Contributions

- VIP course, "Building for Equity and Sustainability." I designed this new course with Juan Archila, Jeremy Brown, Jenny Hirsch, Jimmy Mitchell, and Anne Rogers. Taught in Spring 2020, Fall 2020, Spring 2021.
- New Course Developed: A version of PHIL 3127 called "Thinking," which is a pilot course for the GT Honors Program and developed as a part of a GT FIRE grant on "Piloting the Next in General Education." I developed the course along with Colin Potts; we are each teaching a section of the course in Spring 2020.
- New Course Developed: PHIL 3180: Biomedical Ethics (approved Fall 2018).
- New Course Developed: PHIL 3140: Philosophy of Food (taught as special topics course beginning in Fall 2011, approved as new course in Fall 2016).
- New Course Developed: PST 4803: Commerce, Politics, and Biotechnology (Fall 2010)
- HTS 8002/HTS 6115/LCC 8910: Social and Cultural Perspectives on Science and Technology. Taught a 3-hour section of this course entitled "Values, Interests, and the Commercialization of Academic Research," 22 November 2011.
- HTS 6743/LMC 6743/PUBP 6743: Science, Technology, and Society: Core Seminar. Taught a 3-hour session of this course entitled "Values, Interests, and the Commercialization of Academic Research," 11 November 2013.
- HTS6743/LMC6743/PUBP6743: Science, Technology, and Society: Core Seminar. Taught a 3-hour session of this course entitled "Values, Interests, and the Commercialization of Academic Research," 17 November 2015.

VI. Service

A. Professional Contributions

A1. Leadership Positions

- President, Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) (Fall 2018 – present).
- Steering Committee, Society for Philosophy of Science in Practice (2017-present)
- Director, Georgia Tech Center for Ethics and Technology (CET). The CET was re-launched as the Georgia Tech Ethics, Technology, and Human Interaction Center (ETHIC^x) in Fall 2020.
- Member of Leadership Team, Georgia Tech Ethics, Technology, and Human Interaction Center (ETHIC^x) (Fall 2020 – present).
- Head of the Ethical & Societal AI Thrust, AI@GT (Spring 2019-present).
- Director, Philosophy Program, School of Public Policy, Georgia Tech (2019-present)

A2. Conference or Workshop Organization

1. Co-organizer of the symposium, "The Social Organization of Research and the Flow of Scientific Information," at the 3rd Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), University of Exeter, Exeter, UK. 22-24 June 2011.
2. Co-organizer of the workshop, "The Political Ramifications of Scientific Uncertainty," at the BiCoDa Conference, "Research in Its Technological Setting," Center for Interdisciplinary Research (ZiF), Bielefeld University, Germany. 29 June – 2 July 2011.
3. Co-organizer of the symposium, "The Social Organization of Research and the Flow of Scientific Information," at the 3rd Biennial Meeting of the European Philosophy of Science Association, University of Athens, Athens, Greece. 5-8 October 2011.
4. Program Committee Member, 5th Biennial Atlanta Conference on Science and Innovation Policy (ATLC13), Atlanta, Georgia. 26-28 September 2013.
5. Chair of the Local Organizing Committee for the 25th Biennial Meeting of Philosophy of Science Association (PSA), Atlanta, Georgia. 3-5 November 2016.
6. Organizer of the 4th Conference of the Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE), Atlanta, Georgia. 4-6 June 2018.
7. Organizing Committee Member, 7th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), Ghent University, Ghent, Belgium. 30 June – 2 July, 2018.
8. Organizer of the symposium, "Philosophical Issues in Cancer Diagnosis and Treatment," at the 7th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP), Ghent University, Ghent, Belgium. 30 June – 2 July, 2018.
9. Organizer of the symposium, "Philosophical Issues in Cancer Diagnosis and Treatment," at the 26th Biennial Meeting of the Philosophy of Science Association (PSA), Seattle, Washington. 1-4 November 2018.
10. Co-Organizer of the workshop, "Integrating Ethics and Responsible Computing into Courses: A Workshop." (Organizers: Justin Biddle, Jason Borenstein, Ben Shapiro (GSU),

Ellen Zegura). Aim: to help faculty who teach technical courses (especially in CoC) to integrate ethics into their courses. May 13, 2021.

A3. Editorial Activities

- Advisory Board Member

  o University of Pittsburgh Press series on "Science, Values, and the Public" (Series Editor: Heather Douglas)

- Journal Article Referee

  o *British Journal for Philosophy of Science; Dialectica; European Journal for Philosophy of Science; HOPOS: The Journal of the International Society for the History of Philosophy of Science; Journal for General Philosophy of Science; Kennedy Institute of Ethics Journal; Minerva; Perspectives on Science; Philosophy Compass; Philosophy of Science; Research Policy; Science and Public Policy; Studies in History and Philosophy of Science Part A; Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences; Synthese; Theoria*

- Book Manuscript Referee

  o Oxford University Press, University of Pittsburgh Press, University of Chicago Press

B. Public and Community Service

No data

C. Institute Contributions

C1. INSTITUTE-LEVEL CONTRIBUTIONS

- Nominated and selected to participate in the Georgia Tech Emerging Leaders Program (Fall 2021 – Spring 2022)
- Member of Leadership Team, Georgia Tech Ethics, Technology, and Human Interaction Center (ETHIC^x) (Fall 2020 – present).
- Head of the Ethical & Societal AI Thrust, AI@GT (Spring 2019-present).
- AI@GT Steering Committee (Spring 2019-present)
- Central Institutional Review Board (Spring 2018-present)
- Piloting the Next in General Education (Spring 2018-present)
- Student Honor Committee (elected Spring 2014, Fall 2014-present)
- Kendeda/Living Building Planning Committee, Equity Petal (Fall 2016-Spring 2019)
- Institute OUE Review Panel (Fall 2018)
- Presidential Fellowship Committee (2012, 2013)

C2. COLLEGE-LEVEL (IVAN ALLEN COLLEGE) CONTRIBUTIONS

- Legacy Awards Committee (2010)
- Director, Georgia Tech Center for Ethics and Technology (CET). The CET was re-launched as the Georgia Tech Ethics, Technology, and Human Interaction Center (ETHIC^x) in Fall 2020.

C3. SCHOOL-LEVEL (SCHOOL OF PUBLIC POLICY) CONTRIBUTIONS

- Interim Director of Philosophy Program (2013-2014)
- Director of Philosophy Program (2019-present)
- Undergraduate Committee (2011-present)
- Graduate Committee (2009-2011)
- Faculty Executive Committee (2013-2015)
- Faculty Search Committee (2013-2014, 2015-2016, 2016, 2019-2020)
- Chair, Faculty Search Committee (2015-2016)
- Promotion and Tenure Committee
  - Peer Evaluation of Teaching of Aaron Levine (Fall 2009)
  - Chair, Peer Evaluation of Teaching of Michael Hoffmann (Fall 2011)
  - Peer Evaluation of Teaching of Aaron Levine (Fall 2011)
  - Peer Evaluation of Teaching of Robert Rosenberger (Fall 2012)
  - Peer Evaluation of Teaching of Robert Rosenberger (Fall 2015)
  - Peer Evaluation of Teaching of Robert Kirkman (Fall 2017)
  - Chair, Peer Evaluation of Teaching of Robert Rosenberger (Spring 2021)
- White Paper Group for Strategic Planning (Summer 2013)
- Atlanta Conference on Science and Innovation Policy (ATLC13) Executive Committee (Spring 2012 – Fall 2013)
- Philosophy Club (including faculty and graduate student), participant and presenter (2009 – present)