Benjamin P Goldstein, Ph.D.
Assistant Professor (January 2021-Present)
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Education

University of Toronto	2007	B.A.Sc.	Chemical Engineering
Technical University of Denmark	2012	M.Sc.	Environmental Engineering
Technical University of Denmark	2017	Ph.D.	Management Engineering

Past Appointments

2017-2020	Postdoctoral Research Fellow, Erb Institute for Global Sustainable Enterprise, School for Environment and Sustainability, University of Michigan
2014-2015	Visiting Scholar, School of Architecture and Planning, Massachusetts Institute of Technology
2009-2013	Project Scientist, AEL Environment, Mississauga, ON

Selected Publications

2021 Elliot T., Torres-Matallana J., Goldstein B., Almenar J., Gómez-Baggethun E., Maes J., Proenca V., Rugani B., An expanded framing of ecosystem services is needed for a sustainable urban future. **Renewable and Sustainable Energy Reviews** (Under Consideration)

2021 Elliot T., Goldstein B., Gómez-Baggethun E., Maes J., Proenca V., Rugani B., Global ecosystems deficits of European cities. **Science of the Total Environment** (Under Consideration)

2021 Chamanara S., Goldstein B. & Newell J.P., Mapping power dynamics in supply chains. **Journal of Supply Chain Management** (under consideration)

2021 Cho K., Goldstein B., Gounaridis D. & Newell J.P., Hidden risks of deforestation in global supply chains of natural rubber: A study of Sri Lanka. **Journal of Land Use Science** (Under Consideration)

2021 Goldstein B., Newell J.P., Pelton R., Gounaridis D. & Schmitt J., Do we accurately measure what we consume? **One Earth** (Under Consideration)

2021 Goldstein B., Reames T. & Newell J.P., Wasted Energy: Racial inequities in household energy use and carbon emissions in the United States. **Energy Research and Social Science** (Accepted with Revisions)

2021 Dorr E., Goldstein B., Horvath A., Aubry C., Gabrielle B., Environmental impacts and resource use of urban agriculture: system review and meta-analysis. **Environmental Research Letters**, 16(9)

2021 Cho K., Goldstein B., Gounaridis D. & Newell J.P., Where does your guacamole come from? Detecting deforestation associated with the export of avocados from Mexico to the United States. **Journal of Environmental Management**, 278 (Part 1)

2021 Chamanara S., Goldstein B. & Newell J.P., Where is the Beef? Costco's Beef Supply Chain and Environmental Justice in California. **Journal of Cleaner Production**, 278

2020 Goldstein B., Dimitrios Gounaridis & Newell J.P., The carbon footprint of household energy use in the United States. **Proceedings of the National Academy of Sciences of U.S.A.**, 117(32)

2020 Goldstein B. & Newell J.P., How to track corporations across space and time. **Ecological Economics**, 169

2020 Sohn J., Kalbar P., Goldstein B. & Birkved, M., Defining Temporally Dynamic Life Cycle Assessment: A Literature Review. **Integrated Environmental Assessment and Management**, 16(3)

2019 Goldstein B. & Newell J.P., Why academics should study the supply chains of individual corporations. **Journal of Industrial Ecology,** 23(6)

2019 Newell J.P., Goldstein B. & Foster A., A 40-year review of food–energy–water nexus literature and its application to the urban scale. **Environmental Research Letters,** 14(7)

2018 Goldstein B. & Rasmussen F., Life Cycle Assessment of Buildings and the Built Environment. Book Chapter in **Life Cycle Assessment** (eds) Hauschild M., Rosenbaum R., & Olsen S.

2017 Mohareb E., Heller M., Novak P., Goldstein B., Fonoll X. & Raskin L., Considerations for reducing food system energy demand while scaling up urban agriculture. **Environmental Research Letters,** 12(12)

2017 Goldstein B., Moses R., Sammons N. & Birkved M., Potential to curb the environmental burdens of American beef consumption using a novel plant-based beef substitute. **PLoS One,** 12(12)

2017 Goldstein B., Birkved M., Fernández J. & Hauschild, M. Contributions of Local Farming to Urban Sustainability in the Northeast United States. **Environmental Science & Technology,** 51(13)

2017 Goldstein B., Birkved M., Fernández J. & Hauschild, M. Surveying the environmental footprint of urban food consumption. **Journal of Industrial Ecology,** 21(1)
2016 Goldstein B., Birkved M., Fernández J. & Hauschild, M. Testing the environmental performance of urban agriculture as a food supply in northern climates. **Journal of Cleaner Production,** 135
2016 Goldstein B., Hauschild M., Fernández J. & Birkved M. Urban versus conventional agriculture, taxonomy of resource profiles: a review. **Agronomy for Sustainable Development,** 36(9)
2013 Goldstein B., Birkved M., Quitzau M-J, & Hauschild M., Quantification of urban metabolism by coupling with the life cycle assessment framework: concept development and case study. **Environmental Research Letters,** 8
2013 Goldstein B., Herbøl M., Figeuroa M., Gaps in tools assessing the energy implications of renovations versus rebuilding decisions. **Current Opinions in Environmental Sustainability,** 5

Grants, Awards, and Fellowships

Funding Received

2021 **Sole PI** Natural Sciences & Engineering Research Council (NSERC) Discovery Grant – "Sustainable Cities on an Interconnected Planet" ($180,000 total from 2021-2026)
2021 **Sole PI** Natural Sciences & Engineering Research Council (NSERC) Discovery Grant Launch Supplement– "Sustainable Cities on an Interconnected Planet" ($12,000 total in 2021)

Other Awards

2017 Technical University of Denmark, Young Researcher Award ($3,000)
2014 Augustinus Fund (Denmark) International Graduate Research Award ($4,000)
2014 Reinhold Fund (Denmark) Jorck and Hustrus Fund in Support of Graduate Research ($4,000)
2012 Technical University of Denmark, International Graduate Student Excellence Scholarship ($1,000)

Student Training and Supervision

Undergraduate Supervision

Laurianne Roy (B.Eng. Bioresource Engineering, 2021-present)

Graduate Supervision

William Gagnon (M.Sc. Bioresource Engineering, 2021-present)
Yash Mehta (M.Sc. Bioresource Engineering, Environmental Engineering, 2021-present)

Selected Talks

2021 Goldstein, B. with Cho, K., Gounaridis, D. &Newell J.P. *Rubber and risk: Deforestation related to the export of natural rubber from Sri Lanka,* American Association of Geographers 2021 Annual Meeting. Seattle, Washington. April 7-11
2019 Goldstein, B. with Newell J.P. *Linking Urban and Rural by Tracking Corporate Actors Across Space and Time,* American Association of Geographers 2019 Annual Meeting. Washington, DC. April 7
2017 Goldstein, B. *Assessing the Edible City*, 9th Conference for Industrial Ecology. University of Illinois at Chicago, Chicago, Illinois. June 28
2016 Goldstein B. with Fernandez J., Birkved M. & Hauschild M. *Testing the environmental performance of urban agriculture as a food supply in northern climates*, Gordon Research Conference on Industrial Ecology. Stowe, Vermont. June 24
2014 Goldstein B. *Urban 'Food-prints' and Urban Agriculture - Supplying Food in an Urbanizing World*, World Sustainable Building Conference 2014. Barcelona, Spain. October 29

Selected Media Coverage

2020 *Scientific American*, "Neighborhood wealth dramatically impacts home greenhouse gas emissions," Nov. Issue
2020 *Associated Press,* "Rich Americans spew more carbon pollution at home than poor," Jul. 20
2020 *Planetzen,* "One U.S. state boasts 33% fewer carbon emissions per capita than any other." Aug. 3
2020 *Gizmodo*, "McMansions will doom us all." Jul. 20
2020 *CNN*, "Wealthy American homes have carbon footprint 25% higher than low-income residences." Jul. 20
2020 *Thomson-Reuters*, "High household energy use could thwart U.S. emissions cuts, a study warns." Jul. 20
2017 *Bloomberg,* "Urban agriculture won't save use from climate change." Jun. 21
2017 *Seeker,* "Urban farming isn't a game changer when it comes to carbon emissions." Jun. 22