Jonathan Krones, Affiliate, Groundwork Data

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Industrial ecologist and engineer focused on environmentally sustainable materials and waste systems with expertise in sociotechnical systems modeling, life-cycle assessment, and material flow accounting,

Professional Experience

Groundwork Data, Affiliate Consultant (2021 – Present)

Provides analytical modeling and research into renewable fuels, waste, and life-cycle assessment.

Brandeis University, Waltham, MA, Associate Professor of Engineering (2024 – Present)

First engineering faculty hire at the university; responsible for developing a new undergraduate program in Engineering Science.

Boston College, Chestnut Hill, MA, Core Fellow/Visiting Assistant Professor (2018 – 2021), Assistant Professor of the Practice (2021 – 2024)

Yale Center for Industrial Ecology, New Haven, CT, Postdoctoral Associate (2016 – 2018)

Selected Work

Dr. Krones' technical consulting work includes:

Pacific Northwest National Lab, Waste-to-X Metro Boston Stakeholder Perspectives Study (2024)

CLF, Expert witness in MA D.P.U. 22-32 (2023)

CLF, Limited and Careful Use: Bioenergy in New England (2022)

EOEEA, Massachusetts 2050 Decarbonization Roadmap: Non-Energy Report (2019)

E&Y Canada, Life cycle assessment external review (2019)

ELM, Global Warming Solutions Project Dashboard (2014)

Academic work includes:

Making up for Lost Time (and Space): Quantifying Non-hazardous Industrial Waste Generation in the U.S. Prepared for the Environmental Research and Education Foundation. (2020)

Social and environmental analysis of food waste abatement via the peer-to-peer sharing economy. Nature Communications, 11: 1156. (2020)

Embodied GHG in a fast-growing city – Looking at the evolution of a building stock using structural elements breakdown and policy scenarios. Journal of Industrial Ecology, 22: 1339-51. (2018)

Other relevant activities include:

Fixit Clinic (community repair event) organizer (2017–2020), Massachusetts coordinator (2023–present)

Zero Waste Boston Advisory Committee, member (2018)

Carbon Free Boston: Waste Technical Advisory Group, member (2018)

Education

Ph.D. in Engineering Systems, Massachusetts Institute of Technology, Cambridge, MA (2016)

M.S. in Earth Resources Engineering, Columbia University, New York, NY (2011)

S.B. in Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA (2007)