

Nikola Milojevic-Dupont

CONTACT INFORMATION	EUREF-Campus, Torgauer Str. 12–15, building 19, office 1.01, 10829 Berlin, Germany	milojevic@mcc-berlin.net @Nikola_MD Google scholar
EDUCATION	<p>Technische Universität Berlin, Berlin, Germany PhD candidate, 2018–2021 (expected) Thesis advisor: Prof. Dr. Felix Creutzig</p> <p>AgroParisTech, Ecole des Ponts ParisTech, School for Advanced Studies in the Social Sciences (EHESS), Paris Nanterre University, Paris, France M.S. in Environmental Economonics, 2016–2017 Major in Integrated Assessment Modelling</p> <p>University of Paris 1 Pantheon-Sorbonne, Paris, France M.S. in International Economics, 2015–2016 Best of class</p> <p>University of Paris 1 Pantheon-Sorbonne, Paris, France B.S. in Economics, 2011–2015</p>	
EXPERIENCE	<p>Mercator Research Institute on Global Commons and Climate Change, Berlin, Germany PhD student researcher, 2018–Present</p> <p>Potsdam Institute on Climate Impact Research, Potsdam, Germany Guest researcher, 2017(Aug.)–2017(Oct.)</p> <p>Potsdam Institute on Climate Impact Research, Potsdam, Germany Research assistant to Dr. Nico Bauer, 2017(Mar.)–2017(Aug.)</p>	
PUBLICATIONS	<p>1. Learning from urban form to predict building heights. Milojevic-Dupont, N., Hans, N., Kaack, L. H., Zumwald, M, Andrieux, F., de Barros Soares, D., Lohrey, S., Pichler, P.P. & Creutzig, F. (2020) PLoS ONE 15(12): e0242010</p> <p>2. Machine learning for geographically differentiated climate change mitigation in urban areas. Milojevic-Dupont, N., & Creutzig, F. (2020). Sustainable Cities and Society, 102526.</p> <p>3. Fair street space allocation: ethical principles and empirical insights. Creutzig, F., Javaid, A., Soomauroo, Z., Lohrey, S., Milojevic-Dupont, N., Ramakrishnan, A., ... & Weddige, U. (2020). Transport Reviews, 1-23</p> <p>4. Tackling climate change with machine learning. Rolnick, D., Donti, P. L., Kaack, L. H., Kochanski, K., Lacoste, A., Sankaran, K., Ross AS, Milojevic-Dupont, N., Jaques, N., Waldman-Brown, A. Luccioni, A., Maharaj, T., Sherwin, E. D., Mukkavilli, S. K., Kording, K. P., Gomes, C., Ng, A. Y., Hassabis, D., Platt, J. C.,</p>	

Creutzig, F., Chayes, F. & Bengio, Y. (2019). arXiv preprint arXiv:1906.05433.

PROGRAM
ORGANIZATION

International Conference on Learning Representations (ICLR)
[Energy day of the Climate Change AI workshop](#) (co-organizer), 2019

Applied Machine Learning Days at EPFL
[Climate Change AI track](#) (lead organizer), 2019

CONFERENCE
PRESENTATIONS

Estimating energy demand of buildings ... by learning their heights, OpenStreetMap State Of The Map, 2020

Estimating latent energy demand of buildings with open data, 13th Conference of the International Society for Industrial Ecology (ISIE) - Socio-Economic Metabolism Section, 2019

[Low-carbon urban planning with machine learning](#), Spotlight presentation, Climate Change AI workshop at the International Conference on Machine Learning (ICML), 2019

OTHER
PRESENTATIONS

[AI for sustainable urban planning](#) (in French), Week on Cities and AI, University of Paris 1 Pantheon-Sorbonne, Chair Entrepreneurship, Territory, Innovation, 2020

Summary of the Tackling Climate Change with Machine Learning paper (with the CCAI team), TEDx Countdown Climate Change AI, 2020

Sustainable urban planning with machine learning, Cimpatico studios, 2020

Can machine learning help the transition to low-carbon mobility?, AGYA Workshop Governance of Smart Mobility Data, Reiner Lemoine Institute, 2019

Deploying artificial intelligence to climate change mitigation semantics: a systematic review, Berlin International Graduate School in Model and Simulation based Research (BIMoS) PhD seminar, 2019

Upscaling urban climate solutions with ML approaches (with Felix Creutzig), TU Berlin Machine Learning group PhD seminar, 2018

PROFESSIONAL
SERVICE

[Climate Change AI](#)

Founding and core team member (2019–present)

Community lead for buildings and transportation (2020–present)

Lead organization to facilitate meaningful work in machine learning for tackling climate change.

Reviewer (journal): Applied Energy, Journal of Industrial Ecology, PeerJ Computer Science

Reviewer (conference): Climate Change AI workshop at the Conference on Neural Information Processing Systems (NeurIPS), Climate Change AI workshop at the International Conference on Machine Learning (ICML), Climate Change AI workshop

at the International Conference on Learning Representations (ICLR)

SUPERVISION
EXPERIENCE

Marvin Bensch, Research Assistant and B.S. thesis, from Jan 2021

Andreas Meyer, M.S thesis, 2020–present

Nicolai Hans, Internship, 2020(Feb.)–2020(Aug.)

Currently PhD candidate at Humboldt Universität zu Berlin in Statistics

Published together [1]

SELECTED
PUBLICITY

TU Berlin (in German), press release, [*KI hebt Nachhaltigkeitspotenzial im Städtebau*](#), 2020

MIT Tech Review, article, [*Here are 10 ways AI could help fight climate change*](#), 2019

National Geographic, article, [*How artificial intelligence can tackle climate change*](#), 2019

The Verge, article, [*Here's how AI can help fight climate change according to the field's top thinkers*](#), 2019

MCC Berlin, press release, [*Tackling climate change with artificial intelligence*](#), 2019

OTHER
INFORMATION

Spoken languages: English (proficient), French (mother tongue), German (basic)

Programming languages: Python (proficient), R, SLURM (knowledgeable)

Machine learning software: Keras, Scikit-learn, XGBoost (proficient)

Geographical information software: Geospatial Python stack (proficient), ArcGIS, QGIS (knowledgeable)

Citizenship: France

Last updated: December 15, 2020