

Clément Sebastiao

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IT University of Copenhagen / PhD Student

APRIL 2024 - PRESENT, Copenhagen, Denmark

Optimizing urban sustainable mobility networks, part of the [Just Streets EU Horizon Program](#).

Supervised by Michael Szell and Luca Maria Aiello.

IT University of Copenhagen / Research Assistant

JANUARY - MARCH 2024, Copenhagen, Denmark

THéMA / Internship

FEBRUARY - JULY 2023, Besançon, France

Mode of Transport and Historical Road Network Growth Relationship, with Claire Lagesse.

ISI Foundation / Internship

OCTOBER 2022 - FEBRUARY 2023, Turin, Italy

Nature and Bicycle Network Relationship, with Rossano Schifanella.

Work Experience

IT University of Copenhagen / Internship

FEBRUARY - JULY 2022, Copenhagen, Denmark

Prioritizing Links in Bicycle Network Plans With Subtractive Network Optimization, with Michael Szell.

LIPHY / Internship

MAY - JULY 2021, Grenoble, France

Collective Motion of Schooling Fish in a Complex Environment, with Aurélie Dupont and Philippe Peyla.

ENS Lyon / Internship

JUNE - JULY 2020, Lyon, France

Deep Learning for Time Series Predictions for FECG Monitoring, with Pierre Borgnat and Patrice Abry.

IM2NP / Internship

JUNE - JULY 2019, Marseille, France

Study of Optically Excited Magnetic States of ZnO by EPR, with Adrien Savoyant.

ENS Lyon / ENS Lyon Diploma

SEPTEMBER 2019 - JULY 2023

ENS Lyon / Master degree in Complex Systems, Physics

SEPTEMBER 2020 - JULY 2022

Claude Bernard University Lyon 1/ Bachelor degree in Physics

SEPTEMBER 2017 - JULY 2020

Education

Skills and languages

Spoken languages:

- French: Native language
- English: Proficient user, C1+ level (Cambridge Advanced: 199/210)

Programming languages and tools:

- Proficient in Python, especially with networks and geospatial data
- Using on a regular basis QGIS, LaTeX
- Used before (by decreasing order of proficiency): PostgreSQL, R, Matlab

Journal:

- **In preparation* Sebastiao, C., Vybornova, A., Rahbek Vierø, A., Aiello, LM., and Szell, M. **Quantifying the directness-coverage tradeoffs in greedy growth of planar networks.**
- Savoyant, A., Sebastiao, C. and Margeat, O. (2020), **Long-Standing Optically Excited Magnetic States in ZnO Nanoparticles.** *Phys. Status Solidi RRL*, 14: 2000176. <https://doi.org/10.1002/pssr.202000176>

Conference:

- Best Poster Award at URBANSYS24 at the Conference on Complex Systems 2024.
- Lagesse, C., El Gouj, H., Bonnin, P., and Sebastiao, C. (2023), **Inventaire et analyse de motifs viaires pour une compréhension du développement urbain sur le temps long.** *5èmes Rencontres Francophones Transport Mobilité (RFTM)* <https://hal.science/hal-04146125>

Academic publications and awards