RESEARCH & TEACHING

My plan for joining Geo@UZH

LEVI JOHN WOLF

CITIES & CAUSAL INFERENCE

PEOPLE, POLITICS, *DEMOS*

SPECIES & OCEANS

SOCIAL+TECH INFRASTRUCTURE

Current areas of activity

CITIES & CAUSAL INFERENCE

AUG 2024

Confounded Local Inference: Extending Local Moran Stats to Handle Confounding

Levi John Wolf
March 2024

Rethinking Causality in Quantitative Human Geography

Mirah Zhang   Levi John Wolf

Causal Inference and Spatial Analysis

Levi John Wolf & Nicholas Dorward

due to SAGE Fall of 2025 for spring 2026

spatialcausal.org

Keynote GIS Research UK '24
Dagstuhl '24
Turing Theory & Methods
Challenge Fortnight '24

Current areas of activity

PEOPLE, POLITICS, *DEMOS*

What makes a place 'urban'?
Sean Fox & Levi John Wolf

MAY
2024

Internet adoption & productivity:
Causal effects of internet speed in the UK
Emmanouil Tranos, Anastasios Kitsos, Levi John Wolf

∞ Meta

NOV
2024

Do neighborhood level rent regulations work? A causal analysis of Special Licensing Areas
Levi John Wolf & Alex Marsh

AUG
2025

Current areas of activity

SPECIES & OCEANS

NERC Reference : NE/X001261/1

CoccoTrait: Revealing Coccolithophore Trait diversity and its climatic impacts

Principal Investigator: Dr FM Monteiro, University of Bristol, Geographical Sciences

Co-Investigator: Dr LJ Wolf, University of Bristol, Geographical Sciences
Co-Investigator: Professor A Poulton, Heriot-Watt University, Sch of Energy, Geosci, Infrast & Society

Grant held at: University of Bristol, Geographical Sciences

AUG 2026

Probabilistic Programming for Ocean Digital Twins

A new infrastructure for tunable aquatic ecosystem models

Joost de Vries, Fanny Monteiro, Levi John Wolf, and Chris Follet
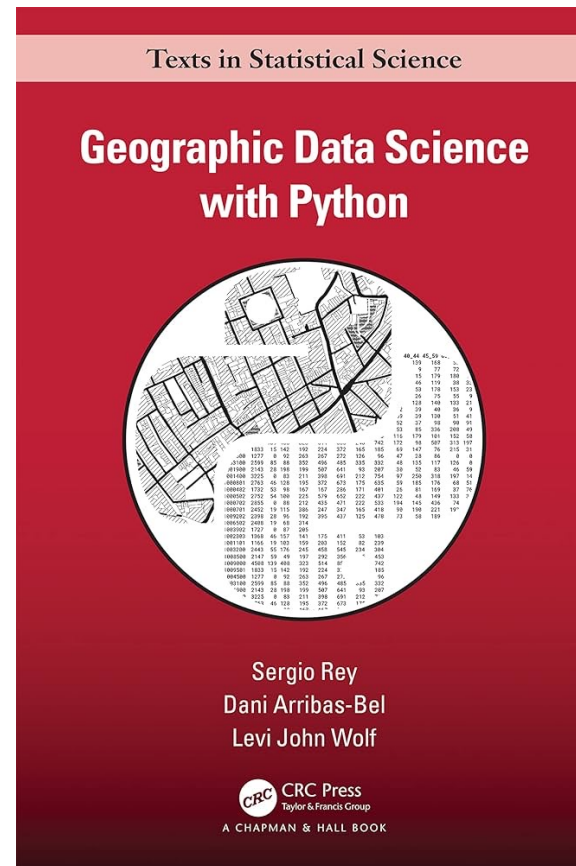
The Alan Turing Institute

OCT 2027

Current areas of activity

WORKSHOPS

GeoPython (Basel 2024)
AGILE (Glasgow 2024)
SciPy Devs (Seattle 2024)

Organizing GISRUK 2025

Texts in Statistical Science

Geographic Data Science with Python

Sergio Rey
Dani Arribas-Bel
Levi John Wolf

CRC Press
Taylor & Francis Group

A CHAPMAN & HALL BOOK

📖 README   ⚖ MIT license

Introduction to Spatial Optimisation

launch | binder

Levi John Wolf

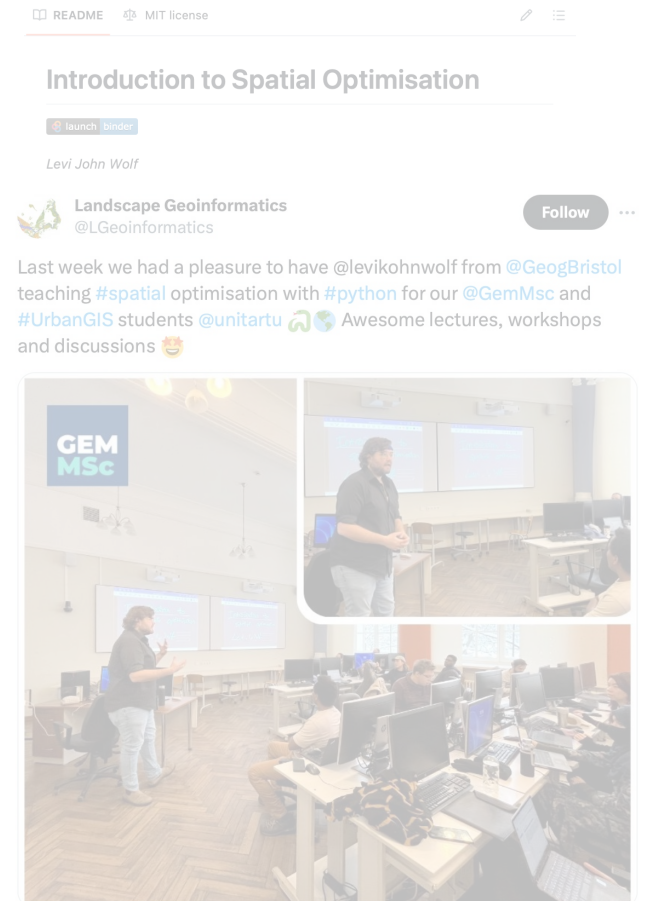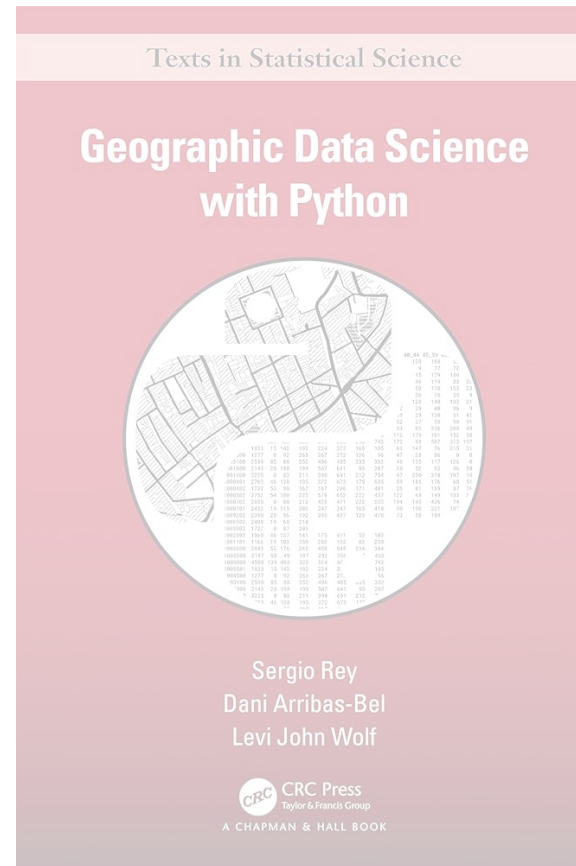**Landscape Geoinformatics**   Follow ⋯
@LGeoinformatics

Last week we had a pleasure to have @levikohnwolf from @GeogBristol teaching #spatial optimisation with #python for our @GemMsc and #UrbanGIS students @unitartu 🌱🌍 Awesome lectures, workshops and discussions 🤩

Current research-driven pedagogy

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README   MIT license

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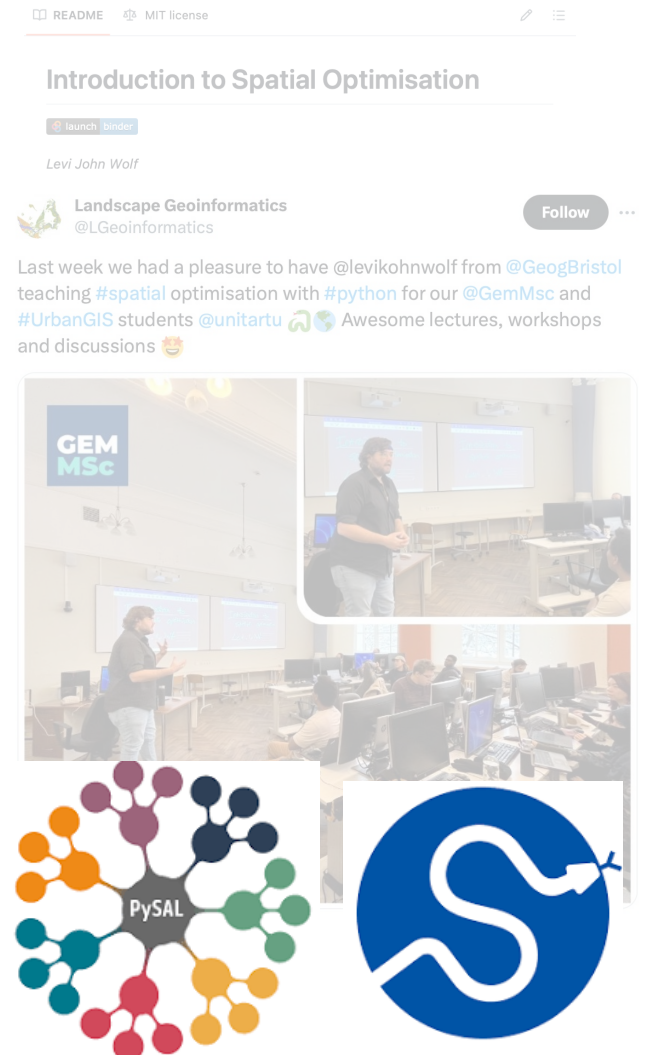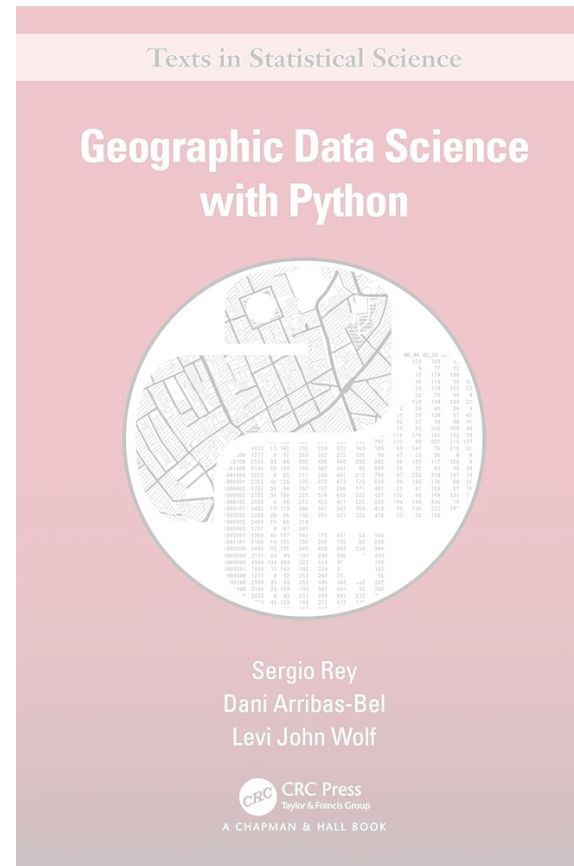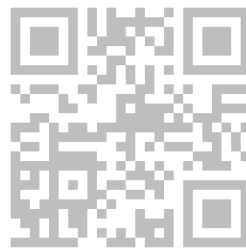
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Current research-driven of pedagogy

AY2024

(re)Locate, listen, learn!

AY2025

"Starting" CInf grant (SNSF SPIRIT) w/ Delft & Maynooth
Finish *Causal Inference in Spatial Analysis* at SAGE

AY2026

Work as partner for ERC Horizon-based follow-on for
CoccoTrait, likely "Protect & Restore Ecologies"

AY2027

Anchor Horizon bid (likely Innovation or Policy & Place)

AY2028

Additional META or Alphabet funding for ML & optimization
for future cities

Five-year research transition plan

DIRECT TEACHING EXPERIENCE

Stats for Geographers (Y1-Y3)

Geographic Data Science (Y3)*

Machine Learning for Geographers (MSc)*

Key Concepts in Geography (Y1)

Ethnicity, Class, & Housing (Y3)

Dissertation Supervision (Y3, MSc)*

TEACHING ADMIN

School Postgraduate Exams Officer

Science Faculty Academic Integrity*

Where I fit in the University of Zurich teaching

WHERE I ADD DEPTH

GIScience (GEO317, 372, 875, 879)
Statistics (GEO246,870, 872, 876, 877, 881)

NEW COURSE IDEAS

Microfoundations of city science
Location theory, spatial opt, scaling, open data
Causal inference for spatial policy & planning
CI & Program evaluation for urban planning
Who counts? An intro to electoral geography
Voting theory, elections, & fairness stats

Where I fit in the University of Zurich teaching

MY RESEARCH VISION

My plan for joining Geo@UZH

LEVI JOHN WOLF