

Juniper Tyree
Doctoral Researcher
Institute for Atmospheric and Earth System Research (INAR)
Doctoral Programme in Atmospheric Sciences
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Research interests

Protecting our planet and the incredible species we share it with are very close to my heart. I am, therefore, very passionate about utilising computer science to solve these global problems.

Qualifications

Theoretical and Computational Methods, Master of Science, Prudent Response Surface Models: Exploring a Framework for Approximating Simulations with Confidence and Certainty, University of Helsinki

1 Aug 2021 → 12 May 2023

Award Date: 12 May 2023

Computing, Master of Engineering, Communication-free and Parallel Simulation of Neutral Biodiversity Models, Imperial College London

30 Sept 2017 → 25 Jun 2021

Award Date: 1 Aug 2021

Employment

Doctoral Researcher

Institute for Atmospheric and Earth System Research (INAR)

University of Helsinki

Finland

1 May 2023 → present

Doctoral Researcher, Doctoral Programme in Atmospheric Sciences

University of Helsinki

Finland

4 Sept 2023 → present

Master Trainee

EMBL European Bioinformatics Institute (EBI)

United Kingdom

1 Apr 2020 → 1 Sept 2020

Undergraduate Teaching Assistant

Imperial College London

London, United Kingdom

1 Oct 2019 → 1 Mar 2020

Undergraduate Research Opportunity

Imperial College London

London, United Kingdom

1 Aug 2019 → 1 Sept 2019

Projects

ESIWACE3

Järvinen, H. (Project manager) & Tyree, J. (Participant)
European Commission Joint Research Centre
01/01/2023 → 31/12/2026

Publications

iplot: Web-First Visualisation Platform for Multidimensional Data

Tanaka, A., Tyree, J., Björklund, A., Mäkelä, J. S. & Puolamäki, K., 2023, *Machine Learning and Knowledge Discovery in Databases: Applied Data Science and Demo Track: European Conference, ECML PKDD 2023, Turin, Italy, September 18–22, 2023, Proceedings, Part VII*. Cham: Springer, p. 335-339 5 p. (Lecture Notes in Computer Science; vol. 14175, no. 1).

A decoupled, modular and scriptable architecture for tools to curate data platforms

Tyree, J., Hermjakob, H. & Llinares, M. B., Oct 2021, In: *Bioinformatics*. 37, 20, p. 3693–3694 2 p.

Communication-free and Parallel Simulation of Neutral Biodiversity Models

Tyree, J., 12 Aug 2021.

Theses

Tyree, J. (2023) *Prudent Response Surface Models: Exploring a Framework for Approximating Simulations with Confidence and Certainty*. Master's Thesis. Available from: <http://urn.fi/URN:NBN:fi:hulib-202305151941>.

Tyree, J. (2021) *Communication-free and Parallel Simulation of Neutral Biodiversity Models*. Master's Thesis. Available from: <https://doi.org/10.48550/arXiv.2108.05815>.

Datasets

The SOSAA Trajectories Dataset

Tyree, J. (Creator) & Clusius, P. S. (Contributor), Zenodo, 26 Apr 2023

DOI: 10.5281/zenodo.7867138, <https://github.com/juntyr/sosaa-trajectories-dataset>