Philipp **Cédric Scherer**

Birkenstraße 18, 10559 Berlin ☎ +49 176 708 789 84 @ cedricphilippscherer@gmail.com cedricscherer.netlify.com

I am a computational biologist in movement & disease ecology who loves to produce informative data visualizations.
For my research I use spatially explicit process-based models together with spatiotemporal statistical analyses to investigate the consequence of movement and global change on pathogens, populations and communities.

Born on September 27th 1986 in Berlin, Germany | Married with 1 dependent daughter (5 months parental leave in 2017/18)

Experience & Education

PostDoc
Investigating coexistence and evolution of dispersal strategies using spatially explicit mechanistic models
Project: DFG Research Training Group "BioMove"
since 04/2019
Leibniz Institute for Zoo & Wildlife Research, Berlin, Germany

Ph.D. in Ecology
Investigating pathogen-host dynamics using mechanistic movement models and spatiotemporal analyses of long-term outbreak data
Thesis: "Infection on the move: individual host movement shapes disease dynamics in structured landscapes."
Project: DFG Research Training Group "BioMove"
10/2015 – 03/2019
Leibniz Institute for Zoo & Wildlife Research, Berlin, Germany

Visiting Research Scholar
Genetic algorithm approaches in agent-based epidemiological models
09/2017 – 11/2017
Getz Lab, University of California, Berkeley, USA

Research Assistant
Investigating effects of root herbivory on plant communities using simulation models
Project: DFG Priority Program "Infrastructure-Biodiversity-Exploratories"
09/2014 – 10/2015
University of Potsdam, Potsdam, Germany

M.Sc. in Ecology, Evolution & Nature Conservation
Main subjects: Theoretical Ecology, Animal Behaviour
Grade: 1.1 (excellent, corresponds to A)
Thesis: "Responses of bird functional types to climatic and land use changes in African savannas – an individual-based modelling approach."
10/2011 – 09/2014
University of Potsdam, Potsdam, Germany

Internship
Catching, sampling and collaring mammals and performing large-scale vegetation surveys
Project: "AgroScapeLabs"
03/2011 – 08/2011
Leibniz Centre for Agricultural Landscape Research, Muencheberg, Germany

B.Sc. in Life Sciences
Main subjects: Organismal Biology, Ecology, Evolution
Grade: 1.7 (good, corresponds to A-)
Thesis: "Analysis of three-dimensional acceleration data for behavioural studies on wild boars (*Sus scrofa* L.) and woolly pigs (*Sus scrofa domestica* L.)."
10/2008 – 09/2011
University of Potsdam, Potsdam, Germany

Further Education

Movement ecology:	Several international workshops, summer schools and conferences
Disease ecology:	Some international workshops and conferences
Model building:	Workshops and trainings on different modelling approaches (e.g. patch occupancy, agent-based, metapopulation, ODEs)
Scientific skills:	Workshops on scientific communication, scientific writing and data visualization

Skills

Languages:	German (*native*), English (*fluent*), Latin (*Latinum*), Ancient Greek (*Graecum*)
Programing:	R, NetLogo, Python, C++, SQL/SQLite
Statistics:	R, SPSS, MS Excel
Visualisation:	R, ggplot2, CartoDB, RAWGraphs
GIS:	QGIS, GRASS
Writing:	Markdown, MS Office, LaTeX

Teaching

R, `tidyverse` and `ggplot2` | Agent-based Modelling | Data Visualization | Scientific Research and Presentation | Embryology and Histology | Systematic Zoology

Achievements

- Speaker of the international Special Interest Group "Young Modellers in Ecology (YoMos)" (2015 – 2019)
- Best Poster Award at the Gordon Research Conference on Animal Movement in USA (2017)

Conference Organisation

→ 1st international BioMove symposium with ~120 participants (September 2018)
→ Four workshops of the GfOe Special Interest Group "Young Modellers in Ecology" with international keynote speakers and 25–30 participants (2015 – 2019)
→ Thematic topic session on "Ecological Simulation Models" at the Joint Annual Meeting of BES, NecoV and GfOe in Ghent, Belgium (December 2017)