# Introduction to Individual-based Modeling: Concepts, Theory, and Software

Ecological Society of America, 2022 Annual Meeting
Short Course 14 (virtual)
Sunday, August 14, 2022
9:00 AM - 4:00 PM

Meeting link:
https://esa.zoom.us/j/85410687532?pwd=OUVNa24vYWJkbTVHcWNLZUdPcXErUT09

File download link:
https://cloudstore.zih.tu-dresden.de/index.php/s/TMTmEHNFgMdLsG8

## Schedule

| Time (Eastern) | Topic | Instructor |
|---|---|---|
| 9:00 | Welcome, overview | SR |
| 9:10 | Lecture: Introduction to IBMs | VG |
| 9:30 | Exercise: Introduction to NetLogo | VG |
| 10:00 | Lecture: The ODD Protocol, a framework for thinking about and describing IBMs | SR |
| 10:30 | Exercise: Programming a simple model in NetLogo | VG |
| 12:00 | Noon break | |
| 13:00 | Lecture: Pattern-Oriented Modeling, a strategy for designing, developing theory for, and calibrating IBMs | SR |
| 13:30 | Exercise: Learning from an IBM—strategies and tools for model analysis | UB |
| 15:00 | Lecture: IBMs and empirical research—linking field, lab, and computer | BCH |
| 15:30 | Final discussion: Resources and tools; questions | SR |

Last revised: 11 August 2022