
NARCÍS FONT MASSOT

PhD Student

Max Planck Institute of Animal Behavior and Centre for the Advanced Studies of Collective Behaviour
Genes and Behavior Research Group
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Research Interests

My research is aimed at understanding collective animal behavior; I use *C. elegans*, and other nematode species, as a model system to comprehend how the social interaction among individual organisms give rise to pattern and structures at higher levels of organization, and why these interactions have evolved.

I combine theoretical, computational, and experimental work to gain insights into the mechanistic aspects and the evolutionary foundations of the nematode behavior, specially focusing on how complex social environments affects the collective behavior, and study the kin recognition strategies.

Education

PhD, University of Konstanz, Germany – 2022–Current

Max Planck Institute of Animal Behavior (MPI-AB) and Centre for the Advanced Studies of Collective Behaviour (CASCB)
Genes and Behavior Research Group
IMPRS-QBEE Doctoral Student
Advisors: Dr. Serena Ding, Prof. Orit Peleg, Dr. Jacob Davidson

MSc degree in Modeling for Science and Engineering, Autonomous University of Barcelona (UAB), Spain – 2020–2021

Mathematics Research Center (CRM)
Specialization in Complex Systems Modeling
Thesis title: “Collective and Distributed Intelligence: Modelling the Foraging Strategies of Ant Colonies”
Advisor: Prof. Frederic Bartumeus Ferré

BSc degree in Physics, University of Barcelona (UB), Spain – 2015–2020

Faculty of Physics and Chemistry
Fundamental Physics Mention
Thesis title: “Collective decision-making in an agent-based model: Nest-site choice by honeybees swarms”
Advisor: Prof. Maria Del Carmen Miguel Lopez

**Academic
Experience**

Max Planck Institute of Animal Behavior, Germany – Oct. 2021– March 2022
Technical Assistant at the Genes and Behavior Research Group.

Blanes Centre for Advanced Studies, Spain – Feb. 2021– June 2021
Internship at the Theoretical and Computational Ecology Laboratory.

ALBA Synchrotron, Spain – Dec. 2019– August 2020
Internship at the Radiological Protection (PR) Team.

**Teaching
Experience**

Master’s course of Collective Animal Behavior, Germany – November 2023
Lecturer

Konstanz Collective Behavior Summer School, Germany – August 2023
Tutor

**Conferences
and presentations**

Collective Motion of Animals and Robots Conference, France– May 2024
Poster Presentation

IMPRS-QBEE Retreat, Germany– November 2023
Talk

CASCB PhD Retreat, Germany– September 2023
Talk

Collective Behavior Gordon Research Conference, USA– August 2023
Poster presentation

IMPRS-QBEE Retreat, Germany– November 2022
Poster presentation

Basel Worm Meeting, Switzerland– September 2022
Poster presentation

Paris Biological Physics Community Day, France – November 2021
Attendance

Grants

CASCB 2022 Newcomer Large Project – 2022-2025
Project title: “Individual heterogeneity to collective behavior in nematodes”
PI: Dr. Serena Ding; Co-authors: Narcís Font Massot, Dr. Jacob Davidson.

Skills

Languages: English, Catalan, Spanish

Programming: Python, MATLAB, Git, LaTeX