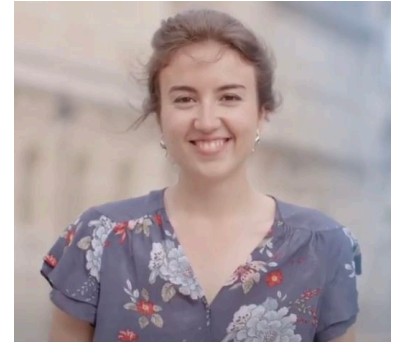


Maitane Muñoz Basagoiti

Postdoctoral researcher

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EDUCATION

- **2019–2022:** Ph.D. in Physics, ESPCI, France
- **2017–2019:** M.Sc. in General Physics, Lund University, Sweden
- **2013–2017:** B.Sc. in Physics, University of the Basque Country, Spain

ACADEMIC APPOINTMENTS

- **2023–now:** IST-BRIDGE postdoctoral fellow
Institute of Science and Technology Austria (ISTA), Austria
Advisor: Andela Šarić
- **2019–2022:** Ph.D. candidate
École de Physique et de Chimie Industrielles de la ville de Paris (ESPCI), France
Advisors: Zorana Zeravcic and Olivier Rivoire

SCHOLARSHIPS AND AWARDS

- **2023–2025: IST-BRIDGE Fellowship**
- **2019–2022: Marie Skłodowska-Curie Actions (MSCA) Fellowship**
European Union’s Horizon 2020 research and innovation UPTO Paris program.
- **July 2021: Poster Competition**, first prize
During the *Fundamental Problems in Statistical Physics XV* summer school in Bruneck, Italy.
- **March 2021: “My PhD Thesis in 5 minutes” outreach competition**, first prize
Scientific outreach competition during *PC Focus* at ESPCI.

PUBLICATION LIST

1. M. Muñoz Basagoiti, O. Rivoire and Z. Zeravcic, “Catalysis from the Bottom up”, arXiv:2211.12107 (2022) (accepted for publication in *Soft Matter*)
2. A. McMullen*, M. Muñoz Basagoiti*, Z. Zeravcic and J. Brujic, “Self-assembly Through Programmable Folding”, *Nature* **610** 502-506 (2022) (Asterisk (*) represents equal contribution.)
3. D. Bennet, M. Muñoz Basagoiti and E. Artacho, “Electrostatics and domains in ferroelectric superlattices”, *R. Soc. Open Sci.* **7** 201270 (2020)

CONFERENCES & SUMMER SCHOOLS

Talks in Conferences and Seminars

- **March 2022: APS March Meeting Conference (Chicago, US)**
Design rules of two-dimensional colloidomer folding
- **January 2022: Journées de Physique Statistique (ENS, Paris, France)**
Designing catalysis from the bottom-up
- **October 2021: Nanomechanics Group Seminar (NTNU, Norway)**
Physical and Geometrical constraints of efficient catalysis
- **April 2021: DMREF meeting (Online)**
Invitation by Prof. Itai Cohen
- **March 2021: APS March Meeting Conference (Online)**
Physics and Evolution of Catalysis

Posters & Summer Schools

- **Max Bergmann Symposium**, poster (Dresde, Germany, July 2022)
- **Fundamental Problems in Statistical Physics XV Summer School**, poster (Bruneck, Italy, July 2021)
- **CRC 235 Molecular Origins of Life Conference**, poster (Munich, Germany, July 2020)
- **TAU-ESPCI Self-Assembly and Self-Organisation Summer School** (Tel-Aviv, Israel, 2019)
- **Lorentz Centre Quantum Revolution Summer School** (Leiden, The Netherlands 2015)

TEACHING AND SEMINAR ORGANIZATION

- **2020–2022: Organizer of the Molecular Evolution Journal Club** (Gulliver Lab, ESPCI)
Weekly journal club with a focus on molecular biology for an interdisciplinary audience.
- **Spring 2021: Internship Advisor/Mentor at CIRB** (Collège de France)
Mentored undergraduate student for 60 hours.
- **2020: Undergraduate Project Assistant** (immersion days, ESPCI)
Co-supervised the project “Numerically Exploring Self-Assembly with Colloidal Particles”.
- **2020: Teaching Assistant** (ESPCI)
Course focused on numerical analysis in Matlab (undergraduate course)

OUTREACH ACTIVITIES

- **Co-organized the “Picture a Scientist” movie screening and round table** (ESPCI, 2021)
Activities organized for the International Women’s Day to increase the visibility of women in research.
- **Lead a survey to assess gender inequality in research at ESPCI** (ESPCI, 2021)
Results are being used to elaborate a report on gender equality at ESPCI.
- **Organized stand at the “Fête de la Science”** (Paris, 2021)
Discussed toy models of protein folding and self-assembly with children aged 6-11.
- **Volunteer at DECLICS (Dialogues Between Researchers and Students)** (Paris, 2019)
Visited several french high schools to discuss science and research with teenagers.

LANGUAGES

- **Programming and Software:** C++, Python, Matlab, Wolfram Mathematica, Illustrator, Ovitto.
- **Spoken languages:** Spanish (mother tongue), English (fluent), French (fluent), Basque (fluent).

REFERENCES

- Prof. Zorana Zeravcic (ESPCI, Paris), zorana.zeravcic@espci.fr
- Dr. Olivier Rivoire (Collège de France, Paris), olivier.rivoire@espci.fr
- Prof. Jasna Brujic (NYU), jb2929@nyu.edu