Thomas BRAZIER
39 years old, French citizen, one child, civil partnership
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EDUCATION BACKGROUND

2019 –2022 **PhD in Ecology and Evolution, specialized in bio-informatics and data analysis.**
CNRS/Rennes University, *Recombination Landscapes and Genome Evolution in Angiosperms*.
2017 – 2019 MSc Biodiversity Ecology & Evolution, Rennes University – first of the class.
2016 – 2017 BSc Biology of Organisms, Aix-Marseille University – first of the class.
2014 –2016 BSc Life Science, Paris 6 University Pierre et Marie Curie.
2007 – 2010 ENS Louis Lumière, Cinéma, Photography & Sound School – with honors
Equivalent to MSc/engineer in video/image processing
2004 – 2007 Bachelor of Arts, Paris X Nanterre University – with honors
2004 High School Diploma in Science – with honors

POST-DOCTORAL EXPERIENCE

2024 – 2026 (24 months). CNRS. ERC EvolSV. Bio-informatics and comparative population genomics.
2022 – 2024 (18 months). CNRS. ANR CisTransEvol. Population genomics, gene expression, RNA-seq.

OTHER PROFESSIONAL BACKGROUND

01/2019 – 06/2019 MSc internship, INRAE UMR DECOD.
04/2018 – 08/2018 MSc internship, INRAE UMR DECOD.
07/2010 – 12/2017 Grip/Key grip. Cinema and television (EuropaCorp, M6, Canal+).

ACADEMIC WORK

7 publications accepted and one pre-print (**6 as first author**), 191 citations, h-index 5.
3 oral presentations and 7 posters in international conferences. Reviewing in 6 academic journals.
See my academic accomplishments at *https://orcid.org/0000-0001-5990-7545*

SOFTWARE & PIPELINES

See my coding work at *https://github.com/ThomasBrazier*: **ABCNeuralNet** (R package), **EasyMareyMap** (R package), **LDhat-snakemake** (Snakemake/Python pipeline), **Evolsv** (Snakemake/Python pipeline).

TECHNICAL SKILLS

Data Scientist: statistics (lm, glm, lmm, bootstrap and resampling techniques, multivariate analysis, Bayesian analysis), Likelihood-free inference and Approximate Bayesian Computation, Machine and Deep Learning (Torch, Bayesian Neural Networks, xAI), population genetics simulations, data visualization.
Programming: R (advanced), package development, Snakemake workflow management, Python, Bash, Cluster (SLURM), Linux, devOps (Git/Docker/Singularity/Conda).
Bio-informatics: Population genomics, WGS, RAD-seq, RNA-seq, Pacbio long reads, data analysis pipelines, comparative genomics, variant calling, allele-specific expression.
Video and image processing (film/digital), color correction, camera lenses and optical systems.

SOFT SKILLS

Drafting and leading projects (eg. Seal of Excellence MSCA from the European Research Council), mentoring students (7), teaching statistics, R programming and bio-informatics (License and Master), team work and shared responsibility, analytical skills (problem solving, critical thinking, rigor, evaluation).
Language: English, current and technical (written/spoken).

WORKSHOPS & TRAINING

Summer school Software and Statistical Methods for Population Genomics (2025), Population genetics simulation with SLiM (2025), QLife Winter school Quantitative Genetics, ENS Paris (2025), Programming with Julia (2024), Deep Learning Specialization (2024), Phylogenomic (2023), Docker (2022), Python programming (2021), Statistics for Ecology workshop (2020), C++ programming. M.Sc. class (Engineer School, 2019).