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# Thomas BRAZIER

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35 years old

16, rue de la ville en pierre  
35 500 Vitré, FRANCE

One child  
Civil partnership

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<https://thomasbrazier.github.io>

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## INTERESTS

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Population Genomics  
Evolutionary Biology  
Modelling

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## SKILLS

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Genetics

Statistics & Data Science

R, Python, Bash/Unix  
Bioinformatics, Snakemake

French (native speaker)  
English (written, spoken)

Driving license

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## ACADEMIC BACKGROUND

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### **2019 – now. Ph.D. Recombination landscapes and genome evolution in angiosperms**

CNRS/Rennes I University – ECOBIO UMR,  
EvoAdapt Team (Genome Evolution and Adaptation)  
Supervisor: Sylvain Glémin

### **2017 – 2019. M.Sc. Biodiversity Ecology & Evolution**

Rennes I University – with honors (top of the class)

### **2017. B.Sc. Biology of Organisms**

Aix-Marseille University – with honors (top of the class)

### **2015 – 2016. B.Sc. Life Science**

Paris 6 University Pierre et Marie Curie / FOAD

### **2007 – 2010. ENS Louis Lumière**

Cinema, Photography & Sound Engineering School  
École Nationale Supérieure Louis Lumière – with honors

### **2004 – 2007. Bachelor of Arts**

Paris X Nanterre University – with honors

### **2004. High School Diploma**

Science – with honors

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## PROFESSIONAL BACKGROUND

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### **2013-17. Key grip. Television**

### **2010-17. Grip. Cinema and television**

*Valerian/Lucy*, by Luc Besson,  
*Braquo*, by Philippe Haïm, *Platane*, by Eric Judor

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## ACADEMIC INTERNSHIPS

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2019. bachelor's degree (6 months), INRAE UMR DECOD. Supervisor : Scott McCairns  
Inferring invasion pathways and source population of the topmouth gudgeon (*Pseudorasbora parva*) in Europe with Machine Learning and ABC (**published, Biol. Invasions**)

2018. bachelor's degree (4 months), INRAE UMR DECOD. Supervisor : Eric Petit  
Limited male dispersal and mating system in lesser horseshoe bats (*Rhinolophus hipposideros*): estimates from parentage assignment (**article in preparation, Animal Behavior**)

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## PUBLICATIONS

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**Brazier T.**, Cherif E., Martin J.F., Gilles A., Blanchet S., Zhao Y., et al., 2022. The influence of native populations' genetic history on the reconstruction of invasion routes: the case of a highly invasive aquatic species. Biol Invasions.

<https://link.springer.com/10.1007/s10530-022-02787-6>

**Brazier T.**, Glémin S., 2022. Diversity and determinants of recombination landscapes in flowering plants. BioRxiv Evolutionary Biology. [**Under review in PLoS Genetics**]

<http://biorxiv.org/lookup/doi/10.1101/2022.03.10.483889>

Foley N.M., Petit E.J., **Brazier T.**, Finarelli J.A., Hughes G.M. Touzalin F., Puechmaille S.J., Teeling E.C., 2020. Drivers of longitudinal telomere dynamics in the long-lived bat species, *Myotis myotis*. Mol Ecol mec. 15395. <https://doi.org/10.1111/mec.15395>

## IN PREPARATION

What drives the rapid buildup of sterility barriers in the Arctic crucifer *Draba nivalis*? Siri Birkeland S., Gustafsson A.L.S., Gizaw A., Chala D., Fraccasetti M., **Brazier T.**, Schrøder-Nielsen A., Slotte T., Rieseberg L.H., Brysting A.K., Glémin S., Nowak M.D., Brochmann C.

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## COMMUNICATIONS

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2021. Evolution. Talk.

2021. Post-Docs and Student Meiosis Conference. Talk.

2022. Petit Pois Dérivé. Poster.

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## TEACHING & SUPERVISION

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**2019 – now. Teaching assistant (3 years, 192 hours).**

Practicals in bioinformatics & statistics (B.Sc. & M.Sc., 160 hours).

Practicals in Ecology (B.Sc., 20 hours).

Jury Member of Oral Defenses (M.Sc., 12 hours).

2020. Co-supervisor of Léo Salema-Gabrelle, M.Sc. internship. Léo studied the evolution of recombination patterns and their genomic consequences in angiosperms.

2021. Co-supervisor of Elise Rolland, M.Sc. internship. Elise implemented a bioinformatic pipeline to estimate recombination landscapes at fine scale from population data.

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## GRANTS

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2022. ECOBIO Grant for a metagenomic study of micro-organisms communities in forest soil between ancient and recent forest lands (€ 5000). In this project I will develop skills for sampling forest soil, DNA extraction and sequencing micro-organisms.

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## WORKSHOPS & COURSES

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2019. Introduction to Wolfram Mathematica.

2019. C++ programming. M.Sc. class (Rennes).

2020. GDR Ecosstat. Statistics for ecology workshop (Rennes).

2021. Ethic & Integrity (MOOC FUN).

2021. CNRS Summer school. Detection and Annotation of Transposable Elements.

2021. Biogenouest Platform. Introduction to Genome Assembly/Annotation with Galaxy.

2021. Python programming (MOOC FUN).

2022. Docker (MOOC OpenClassrooms).

2022. Specialization Machine Learning (MOOC Coursera).

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## ADDITIONAL INFORMATION

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### *Laboratory life*

2020 – now. Elected member of the Doctoral School advisory board (Rennes).

2021 – now. Volunteer for the Labo I.5 initiative in the ECOBIO laboratory (Rennes).

2019 – now. Recurrent animator of the ECOBIO laboratory journal club (Rennes).

2020 – now. Participant of the book club led by **Martin Lascoux** (Uppsala University).

### *Collaborations outside the laboratory*

**Laurent Duret & Nicolas Lartillot (LBBE, Lyon University).** I am involved in the HotRec French ANR project, which is studying meiotic recombination in metazoans, while I'm studying in parallel recombination patterns in plants. I do recurrent meetings and travels at the LBBE.

**Christian Brochmann (Oslo University).** I am involved in the Speciation Clock project in Norway, for which I applied population genetics methods to study population structure and demography between populations of the Arctic crucifer *Draba nivalis*. (article in preparation)