

# Camille Curantz | Curriculum Vitae

French nationality  
Born: April 23<sup>th</sup> 1993  
camillecurantz@college-de-france.fr

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## Education

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- **Ph.D.** in Developmental biology at **Sorbonne University**, Paris 6 (UPMC) 2020  
Advisor: Marie Manceau, Collège de France
- **MSc** in Genetics and “European Magistere of genetics” with Honors 2013-2016  
**University Denis Diderot Paris 7**
- "Classes préparatoires" specialised in Biology, Chemistry, Physics, and Geology, 2011-2013  
corresponding approximately to a two-year university diploma in those four disciplines
- French Baccalauréat with Honors 2011

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## Research Experience

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- **Ph.D. student** (3 years) and **Temporary Lecturer and Research Assistant** (1 year), 2016-present  
Marie Manceau’s lab CIRB, **Collège de France**, Paris (France)  
“Morphogenesis of skin pattern geometry in birds”
- **MSc internship** in Marie Manceau’s lab (6 months), CIRB, **Collège de France**, Paris 2016  
“Formation of colour pattern in zebra finch”
- **MSc internship** in Rich Schneider’s lab (5 months), **UCSF**, San Francisco (USA) 2015  
“Role of bone resorption in species-specific jaw length”
- **BSc internship** in Charambolos Kyriacou’s lab (3 months), **University of Leicester**, England 2014  
“Disruption of circadian clock and diapause in *Drosophila*”

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## Teaching activity

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- Supervisor of undergraduate students (Leonard Marques, María Castro Scherianz) 2017, 2021
- Tutoring for middle school students 2012-2018

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## Technical skills

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**Experimental embryology** (micro-injection, electroporation, organotypic culture, micro-dissection, transplantation); Classical Histology and Molecular biology technics, **Microscopy** (Atomic Force Microscopy, Live imaging, confocal, DIC, epifluorescence, image analysis); **Models**: *Drosophila*, birds (duck, zebra finch, quail, pheasant, partridge, ostrich, emu, penguin). **Informatics** (ImageJ, Amira, Illustrator,)

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## Fellowships

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Research and Teaching fellowship from the Collège de France (1 year) 2019

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## Publications

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- **Curantz C**, Bailleul R, Hidalgo Magda Durande M, Graner D, Manceau M. Cell shape anisotropy and motility constrain self-organised feather pattern fidelity in birds. bioRxiv 2021.01.22.427778.

- Hidalgo M, **Curantz C**, Quenech'Du N, Gluckman TL, Neguer J, Beck S, Mohammad A, Manceau M. A conserved paint box underlies color pattern diversity in Estrildid finches. *bioRxiv* 2021.02.19.431992
- Haupaix, N., **Curantz, C.** and Manceau, M. The embryonic origin of periodic colour patterns. *Comptes Rendus Biologies*, 2020, 343(2), 143-153 (in french).
- Bailleul R, **Curantz C**, Desmarquet-Trin Dinh C, Hidalgo M, , Touboul J, Manceau M. Symmetry breaking in the embryonic skin triggers a directional and sequential front of competence during plumage patterning. *Plos Biol*, 2019 17(10) : e3000448
- Haupaix N, **Curantz C**, Bailleul R, Beck S, AA, Marie Manceau. Periodic pattern in bird have a mesodermic origin. *Science*, 2018. 361(6408)
- Ealba EL, Jheon AH, Hall J, **Curantz C**, Butcher KD, Schneider RA. Neural crest-mediated bone resorption is a determinant of species-specific jaw length. *Dev. Biol.*, 2015. 408(1):151-63

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## Field Work

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Organisation and collection of embryos of Gentoo penguin from natural population in The Falkland Islands

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## Communications

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- “Development present...” webinar by the Node 2021  
**Talk:** “Cell shape anisotropy and motility constrain self-organised pattern fidelity in birds”
- European Congress of developmental biology, Alicante 2019  
**Poster:** Early skin cell anisotropy shapes feather pattern regularity
- Avian system meeting, Institut Pasteur, Paris 2018  
**Poster:** “Role of morphogenesis in birds’ feather pattern”
- Pint of science, Paris Communication 2018  
**Talk:** “A fleur de peau”
- Evo-Devo meeting Club, Paris 2017  
**Talk:** “Formation and evolution of macro and micro pattern in birds’ skin”
- Evo-Devo unit meeting, Paris 2017  
**Talk:** “Skin micro-patterning in birds”

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## Languages and other skills

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**French:** Mother tongue **English :** Fluent **Spanish :** Beginner **German :** Beginner

- Associative activity:
  - President of the Young Researchers Association of the Collège de France
  - Organiser of Lunch seminar of Interdisciplinary young researchers
  - Organiser of Pint of Science 2018 at « l’Antidote » Paris
  - Organiser of the “Science week” 2017-2019 at the Collège de France
- Animal testing ability 2017