

Morgane Nouvian

Address
Neptunstrasse 6
8280 Kreuzlingen
Switzerland

Phone number : +49 (0)1525 8478 376
Email : morgane.nouvian@uni-konstanz.de

Date of birth: 17th June 1988
Nationality: French

Scientific career

- 2019-to date: **Research fellow of the Zukunftskolleg / Junior group leader**
Neurobiology and Collective behaviour
Konstanz Universität, Konstanz, Germany
- 2016-2019: **Post-doctoral fellow**
Neurobiology of insect olfaction, Lab of Pr. Galizia
Konstanz Universität, Konstanz, Germany
- 2013-2016: **PhD (cotutelle), awarded the “Prix Dominique Clos” and the UQ Dean’s Award**
Neuroethology of the olfactory modulation of honeybee aggression
The University of Queensland, Brisbane, Australia
Université Paul Sabatier, Toulouse, France
- 2011-2012: **Research engineer**
Neuroethology of the zebrafish, Lab of Dr. Sumbre
Ecole Normale Supérieure, Paris, France
- 2009-2011: **Master Biosciences, mention Bien**
Equivalent to a Master degree in Science (M.Sc.), awarded with distinction; Major: Biology
Ecole Normale Supérieure de Lyon (ENS), Lyon, France
Internships: Neurobiology, CNRS-UMR 5167, Lyon, France
Population Genetics, The University of Sydney, Sydney, Australia
Neurobiology, CNRS-UMR 5020, Lyon, France
- 2008-2009: **Licence de biologie fondamentale, 3rd year**
Equivalent to the final year of a Bachelor of Science (B.Sc.); Major: Biology
Ecole Normale Supérieure de Lyon (ENS), Lyon, France
Internship: Ecology, CNRS-UMR 6116, Marseille, France
- 2006-2008: **Classe préparatoire BCPST (Biologie Physique et Sciences de la Terre)**
Two-year intensive course before the competitive entrance examinations to French “Grandes Ecoles”; Major: Science
Lycée Lakanal, Sceau, France
- 2003-2006: **Baccalauréat S, mention Très Bien**
Equivalent to A-levels, awarded with the highest distinction; Major: Science
Lycée de la Vallée de Chevreuse, France

Additional formations

2015: **FENS/CAJAL Behaviour and Neural Systems course**, Lisbon, Portugal.

2014: **International Brain Research Organization (IBRO) Advanced School of Neuroethology**, Sapporo, Japan.

2012: **Ecole des Neurosciences de Paris (ENP) Spring School** “Optical imaging and Electrophysiological recordings in Neuroscience” (lectures only), Paris, France.

Teaching and supervision

Courses on honeybee physiology, as part of the formation “Apiculture, Pathologie Agricole” of the Veterinary School of Nantes (ONIRIS), France. (2016 – to date)

Participation in the VTK course on animal physiology (Universität Konstanz, Germany; 2017 – to date) and in the honeybee neurobiology course (University of Queensland, Australia; 2013).

Supervision:

- 1 Visiting PhD student, 3-month stay: Souvik Mandal
- 2 Master students, 2-month full time internships: Charlene Jamme, Maxime Pocher
- 2 Bachelor students, 6 weeks full time internship: Karoline Weich, Cesar Bertinetti-Ceratto
- 2 VTK students, 6 weeks full time: Feng Liu, Sven Lauke
- 3 Student assistants (HiWi): Feng Liu, Dario Walser, Karoline Weich

Publications

Nouvian M, Breed M. (in press) Colony defense. *Encyclopedia of Social Insects*. Springer.

Hajnal M, **Nouvian M**, Šafránek D, Petrov T. (2019) Data-Informed Parameter Synthesis for Population Markov Chains. In: Češka M., Paoletti N. (eds) *Hybrid Systems Biology. HSB 2019. Lecture Notes in Computer Science*, vol 11705. Springer, Cham.

Nouvian M, Galizia C.G. (2019) Aversive training of honeybees in an automated Y-maze. *Frontiers in Physiology* 10:678.

Nouvian M, Deisig N, Reinhard J, Giurfa M. (2018) Seasonality, alarm pheromone and serotonin: insights on the neurobiology of honeybee defence from winter bees. *Biology Letters* 14:20180337.

Nouvian M, Mandal S, Jamme C, Claudianos C, d’Ettorre P, Reinhard J, Barron A, Giurfa M. (2018) Cooperative defence operates by social modulation of biogenic amine levels in the honeybee brain. *Proceedings of the Royal Society of London B* 285: 20172653.

Nouvian M, Reinhard J, Giurfa M. (2016) The defensive response of the honeybee *Apis mellifera*. *Journal of Experimental Biology* 219: 3505-3517.

- Pérez-Schuster V, Kulkarni A, **Nouvian M**, Romano S.A, Lygdas K, Jouary A, Dippopa M, Pietri T, Haudrechy M, Candat V, Boulanger-Weill J, Hakim V, Sumbre G. (2016) Sustained rhythmic brain activity underlies visual motion perception in zebrafish. *Cell Reports* 17: 1098–1112.
- Nouvian M**, Hotier L, Claudianos C, Giurfa M, Reinhard J. (2015) Appetitive floral odours prevent aggression in honeybees. *Nature Communications* 6, doi: 10.1038/ncomms10247
- Seebacher F, Holmes S, Roosen N, **Nouvian M**, Wilson R, Ward A. (2012) Capacity for thermal acclimation differs between populations and phylogenetic lineages within a species. *Functional Ecology* 26(6):1418-1428.
- Mandairon N, Sultan S, **Nouvian M**, Sacquet J, Didier A. (2011) Involvement of neurogenesis in olfactory associative learning? The operant or non-operant component of the task makes all the difference. *Journal of Neuroscience* 31: 12455-60.

Conference contributions

- GRS/GRC 2019 “Modulation of neural circuits and behavior” (Les Diablerets, Switzerland) – **Nouvian M**, Mandal S, Jamme C, Claudianos C, d’Ettorre P, Reinhard J, Barron A, Giurfa M. Alarm pheromone regulates aggression through dopamine and serotonin brain levels. (poster)
- NWG 2019 (Göttingen, Germany) – **Nouvian M**, Galizia CG. Interactions between phototaxis and colour learning in honeybees. (poster)
- IUSSI 2018 (Guarujá, Brazil) – Chair of symposium “Social and complex forms of learning in social insects” – **Nouvian M**, Galizia G. Towards automated conditioning of honeybees in complex tasks. (oral)
- ICN 2018 (Brisbane, Australia) – **Nouvian M**, Galizia CG, Mercer A. Effect of group size on the stinging responsiveness of honeybees. (poster)
- IUSSI-SF 2017 (Paris, France) – **Nouvian M**, Mandal S, Jamme C, Claudianos C, d’Ettorre P, Reinhard J, Barron A, Giurfa M. Alarm pheromone regulates aggression through dopamine and serotonin brain levels. (poster)
- NeuroFrance 2017 (Bordeaux, France) – **Nouvian M**, Mandal S, Jamme C, Claudianos C, d’Ettorre P, Reinhard J, Barron A, Giurfa M. Alarm pheromone regulates aggression through dopamine and serotonin brain levels. (poster)
- ICN 2016 (Montevideo, Uruguay) – **Nouvian M**, Hotier L, Claudianos C, Giurfa M, Reinhard J. Appetitive floral odours prevent aggression in honeybees. (poster)
- CNI 2015 (Gif-sur-Yvette, France) – **Nouvian M**, Barron A, Giurfa M, Reinhard J. Changes in brain biogenic amines levels after aggression and alarm pheromone exposure in honeybees. (oral)
- ICN 2014 (Sapporo, Japan) – **Nouvian M**, Giurfa M, Reinhard J. Insights into honeybee aggression: role of the olfactory context. (poster)
- IUSSI 2014 (Cairns, Australia) – **Nouvian M**, Giurfa M, Reinhard J. Olfactory modulation of honeybee aggressiveness. (oral)
- ASSAB 2014 (Katoomba, Australia) – **Nouvian M**, Giurfa M, Reinhard J. Olfactory modulation of honeybee aggressiveness. (oral)

Awards and Grants

- Erasmus+ Staff mobility**, for co-supervision of a MSc student at the University of Trento (2019)
- Research fellowship**, Zukunftskolleg, 5-year funding for position and start-up grant (2019)
- DFG Research grant**, 3-year funding for position and equipment (2018)
- Young Scholar Fund Bridge fellowship**, 2-month living allowance (2018)
- Mentorship grant**, Zukunftskolleg, continuing cooperation with Pr. Alison Mercer (2018)
- IUSSI-SF Travel Grant**, International Union for the Study of Social Insects – French Section, travel to IUSSI (2018)
- Prix Dominique Clos**, Académie des Sciences et Belles Lettres de Toulouse, rewarding an outstanding thesis in biologie (2017)
- Dean's Award**, the University of Queensland, rewarding an outstanding thesis (2017)
- Independent Research Start-up grant**, Zukunftskolleg, for laboratory equipment (2017)
- Mentorship grant**, Zukunftskolleg, enabling cooperation with Pr. Alison Mercer (2017)
- Post-doctoral fellowship**, Fyssen Fondation, 2-year living allowance (2016)
- Heiligenberg Student Travel Award**, International Society of Neuroethology, travel to ICN (2016)
- Bourse d'aide à la cotutelle**, Université Paul Sabatier, support for joint PhD (2015)
- Graduate School International Travel Award**, the University of Queensland, travel to partner university in France (2015)
- IBRO grant**, International Brain Research Organization, travel to ICN and associated Advanced School of Neuroethology (2014)
- Heiligenberg Student Travel Award**, International Society of Neuroethology (returned, 2014)
- IUSSI Travel Grant**, International Union for the Study of Social Insects, travel to IUSSI (2014)
- Centennial Scholarship + International tuition fee waiver**, the University of Queensland, 3.5-year PhD scholarships (2013)
- ExploRA'Sup**, Région Rhône Alpes, 4-month allowance for MSc internship abroad (2010)