

Angela Albi

Postdoc @ Couzin Lab - Max Planck Institute of Animal Behavior

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Research Experience

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| Postdoc at Max Planck Institute of Animal Behavior (Konstanz, Germany) Supervised by Professor Iain D. Couzin | Oct 2023 – today |
| Postdoc at Stockholm University (Stockholm, Sweden) Supervised by Dr. Valentina Di Santo | Jun 2023 – Sept 2023 |
| Postdoc at Max Planck Institute of Animal Behavior (Konstanz, Germany) Supervised by Professor Iain D. Couzin | March 2023 – May 2023 |
| Ph.D. at Max Planck Institute of Animal Behavior (Konstanz, Germany) Supervised by Professor Iain D. Couzin | Oct 2016 – Feb 2023 |
| Master's thesis at Center for Mind/Brain Sciences (CIMEC) (Rovereto, Italy) <i>Topics: in-vivo two-photon calcium imaging, honey bees, olfactory system, insects</i> | Dec 2015 – Oct 2016 |
| Internship at Harvard Medical School (Boston, USA) Supervised by Dr. Lauren O'Donnell | Summer 2015 |

Professional Experience

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| Postdoc Institute representative Representative for the Max Planck Institute of Animal Behavior | Sept 2024 – Today |
| Lead organizer TEDxKonstanz 2021 TEDxKonstanz – Kaleidoscope: Patterns in Nature and Society | Apr 2019 – Apr 2021 |
| PhDnet and internal student representative Representative for the Max Planck Institute of Animal Behavior | Nov 2018 – Nov 2020 |
| Mentor at MEDILS, Mediterranean Institute for Life Sciences (Split, Croatia) Co-organizer of the course "Sensing the Oceans - Social Behaviour of Fish" for 13-18 years-old students | Aug 2019 |

Education

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| Ph.D. in Biology at Max Planck Institute of Animal Behavior (Konstanz, Germany) <i>Magna cum Laude</i> <i>Thesis: The role of parasitism in individual and collective behaviour of fish</i> | 2016 – 2023 |
| MSc in Cognitive Science at Center for Mind/Brain Sciences (CIMEC) (Rovereto, Italy) <i>110/110 cum laude</i> <i>Thesis: in-vivo two-photon calcium imaging, honey bees, olfactory system, insects</i> | 2014 – 2016 |
| BSc in Psychology at University of Trento (Rovereto, Italy) <i>110/110</i> | 2014 – 2016 |

Advanced Training

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| Wilderness Advanced First Aid Course - Outdoorschule süd (Konstanz, Germany) First aid course for emergency and rescue situations in the field and remote locations | May 2023 |
| CAJAL - Behaviour of Neural Systems (Lisbon, Portugal) Hands-on introduction to advanced methods in behavioural analysis | Jul 2018 |
| TENSS - Transylvanian Experimental Neuroscience Summer School (Cluj, Romania) Hands-on summer school in experimental systems neuroscience | Jun 2017 |

Fellowships and Awards

Feb 2024: Small Cluster Grant funding Field Work Centre for the Advanced Study of Collective Behavior
Sept 2020: Small Cluster Grant funding TEDxKonstanz Centre for the Advanced Study of Collective Behavior
Jun 2017: Transylvanian Experimental Neuroscience Summer School Simons Foundation
Oct 2016: IMPRS for Organismal Biology Max Planck Graduate School
Jul 2015: Armenise-Harvard Summer Fellowship Armenise-Harvard Foundation

Technical Skills

Operative Systems: Mac, Linux, Windows
Programming: Python, Matlab, L^AT_EX, basics of R
Image and Video editing: Adobe Lightroom Classic, Adobe Premier Pro, Adobe Photoshop, Inkscape
Languages: Italian (Native), English (Advanced), German (B1)
Practical skills: AIDA2 Free diving, SSI Advanced diver, Motorboat and sailing licence, CMAS* diving licence, Drone pilot open A1/A3, Beekeeping

Conferences

Sept 2024: Guest at RSI "Il giardino di Albert", Science communication TV show (Lugano, Switzerland)
Sept 2024: Guest at RSI Radio "Il giardino di Albert", Science communication radio podcast (Lugano, Switzerland)
May 2023: Invited speaker at the seminar "Made in CIMeC", Career Fair (Trento, Italy)
July 2022: Invited speaker at the Society of Experimental Biology, (Montpellier, France)
July 2022: Talk at Animal Behavior Society, (San Jose, Costa Rica)
Summer 2021: Virtual talks at Animal Behavior Society (ABS), Society of Experimental Biology (SEB) Annual Meeting, Association for the Study of Animal Behavior (ASAB)
April 2021: Fish, Symmetry, Connection: Illustrating animal behaviour. Live stream for MaxCine, Max Planck Institute of Animal Behavior

Publications

- Paoli, M, Antonacci, Y, Albi, A, Faes, L, Haase, A (2023) **Granger Causality Analysis of Transient Calcium Dynamics in the Honey Bee Antennal Lobe Network** *Insects*, 14(6), 539
- Albi A*, Paoli M*, Zanon M, Zanini D, Antolini R, Haase A (2018) **Neuronal response latencies encode first odor identity information across subjects** *Journal of Neuroscience*, 38 (43), 9240-9251
- Albi A, Meola A, ..., Golby A, O'Donnell JL. (2018) **Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tract-Specific Effects** *Journal of Neuroimaging*, DOI: 10.1111/jon.12485
- Albi A, Pasternak O, Minati L, ..., Frisoni G, Jovicich J, PharmaCog Consortium (2017) **Free water elimination improves test-retest reproducibility of diffusion tensor imaging indices in the brain: a longitudinal multisite study of healthy elderly subjects.** *Human Brain Mapping*, 38: 12-26.
- O'Donnell JL, Suter Y, Rigolo L, Kahali P, Norton I, Albi A, Zhang F, Meola A, Ciris PA, Rath Y, Westin CF, Golby A. (2017) **Automated White Matter Fiber Tract Identification in Patients with Brain Tumors**

NeuroImage: Clinical, 13: 138-153.

- Isler C, **Albi A**, Temel Y, Duits A. (2016) **Neuropsychological Outcome in Subthalamic Nucleus Stimulation Surgeries with Electrodes Passing Through the Caudate** *Stereotactic and Functional Neurosurgery*
- Fairhall SL, **Albi A**, Melcher D (2014) **Temporal Integration Windows for Naturalistic Visual Sequences.** PLoS ONE 9(7): e102248. doi:10.1371