

Stanford



Andrius Pasukonis

Postdoctoral Research Fellow, Biology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Vienna , Behavioral biology (2015)
- Master of Science (M2), Université Paris Nord , Comparative Ethology (2011)
- Master of Science (M1), Ecole Normale Supérieure de Paris , Ecology and Evolution (2010)
- Bachelor of Science, Université Joseph Fourier (Grenoble 1) , Biology (2009)

LINKS

- Researchgate: projects and publications: https://www.researchgate.net/profile/Andrius_Pasukonis
- Photos of nature and science in action: <https://www.facebook.com/APPhotographer/>
- Twitter: https://twitter.com/frog_tracker

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I'm an experimental biologist with a passion for animal behavior, natural history, and rainforest frogs. I'm interested in how the environment shapes animal behavior and animal cognitive abilities. I primarily work with South American poison frogs because they display some of the most complex spatial and social behaviors known among amphibians, but the cognitive and sensory mechanisms underlying their behavior are poorly understood. In the field, I combine tracking with experimental manipulations of frogs and their environment to understand movement patterns, navigational abilities, and the use of spatial memory. In the lab, I study the neural basis of poison frog spatial cognition.

LAB AFFILIATIONS

- Lauren O'Connell, O'Connell lab (9/1/2018)

Publications

PUBLICATIONS

- **From habitat use to social behavior: natural history of a voiceless poison frog, *Dendrobates tinctorius*** *PEERJ*
Rojas, B., Pasukonis, A.
2019; 7: e7648
- **How far do tadpoles travel in the rainforest? Parent-assisted dispersal in poison frogs** *EVOLUTIONARY ECOLOGY*
Pasukonis, A., Loretto, M., Rojas, B.
2019; 33 (4): 613–23

- **Empowering Latina scientists** *SCIENCE*
Bernal, X. E., Rojas, B., Pinto-E, M., Mendoza-Henao, A. M., Herrera-Montes, A., Isabel Herrera-Montes, M., Caceres Franco, A., Ceron-Souza, I., Paz, A., Vergara, D., Barragan Contreras, L., Salazar, C., Bohorquez Alonso, et al
2019; 363 (6429): 825–26
- **Brilliant-thighed poison frogs do not use acoustic identity information to treat territorial neighbours as dear enemies** *ANIMAL BEHAVIOUR*
Tumulty, J. P., Pasukonis, A., Ringler, M., Forester, J. D., Hoedl, W., Bee, M. A.
2018; 141: 203–20
- **Map-like navigation from distances exceeding routine movements in the three-striped poison frog (*Ameerega trivittata*)** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Pasukonis, A., Loretto, M., Hoedl, W.
2018; 221 (2)
- **Map-like navigation from distances exceeding routine movements in the three-striped poison frog (*Ameerega trivittata*)**. *The Journal of experimental biology*
Pašukonis, A., Loretto, M. C., Hödl, W.
2018; 221 (Pt 2)
- **Induced parental care in a poison frog: a tadpole cross-fostering experiment** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Pasukonis, A., Beck, K., Fischer, M., Weinlein, S., Stuckler, S., Ringler, E.
2017; 220 (21): 3949–54
- **Relying on known or exploring for new Movement patterns and reproductive resource use in a tadpole-transporting frog** *PEERJ*
Beck, K. B., Loretto, M., Ringler, M., Hoedl, W., Pasukonis, A.
2017; 5: e3745
- **Humans recognize emotional arousal in vocalizations across all classes of terrestrial vertebrates: evidence for acoustic universals** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Filippi, P., Congdon, J. V., Hoang, J., Bowling, D. L., Reber, S. A., Pasukonis, A., Hoeschele, M., Ocklenburg, S., de Boer, B., Sturdy, C. B., Newen, A., Guentuerkuen, O.
2017; 284 (1859)
- **Homing performance in a territorial dendrobatid frog, *Allobates talamancae*** *SALAMANDRA*
Pichler, C., Weinlein, S., Kopeinig, L., Pasukonis, A.
2017; 53 (2): 309–13
- **The significance of spatial memory for water finding in a tadpole-transporting frog** *ANIMAL BEHAVIOUR*
Pasukonis, A., Trenkwalder, K., Ringler, M., Ringler, E., Mangione, R., Steininger, J., Warrington, I., Hoedl, W.
2016; 116: 89–98
- **Take the long way home: Behaviour of a neotropical frog, *Allobates femoralis*, in a detour task** *BEHAVIOURAL PROCESSES*
Munteanu, A., Starnberger, I., Pasukonis, A., Bugnyar, T., Hoedl, W., Fitch, W.
2016; 126: 71–75
- **Sex-specific offspring discrimination reflects respective risks and costs of misdirected care in a poison frog** *ANIMAL BEHAVIOUR*
Ringler, E., Pasukonis, A., Ringler, M., Huber, L.
2016; 114: 173–79
- **High-resolution forest mapping for behavioural studies in the Nature Reserve 'Les Nouragues', French Guiana** *JOURNAL OF MAPS*
Ringler, M., Mangione, R., Pasukonis, A., Rainer, G., Gyimesi, K., Felling, J., Kronaus, H., Rejou-Mechain, M., Chave, J., Reiter, K., Ringler, E.
2016; 12 (1): 26–32
- **Flexible compensation of uniparental care: female poison frogs take over when males disappear** *BEHAVIORAL ECOLOGY*
Ringler, E., Pasukonis, A., Fitch, W., Huber, L., Hoedl, W., Ringler, M.
2015; 26 (4): 1219–25
- **Poison frogs rely on experience to find the way home in the rainforest** *BIOLOGY LETTERS*
Pasukonis, A., Warrington, I., Ringler, M., Hoedl, W.
2014; 10 (11): 20140642

- **Ravens notice dominance reversals among conspecifics within and outside their social group** *NATURE COMMUNICATIONS*
Massen, J. M., Pasukonis, A., Schmidt, J., Bugnyar, T.
2014; 5: 3679

- **Homing trajectories and initial orientation in a Neotropical territorial frog, *Allobates femoralis* (Dendrobatidae)** *FRONTIERS IN ZOOLOGY*
Pasukonis, A., Loretto, M., Landler, L., Ringler, M., Hoedl, W.
2014; 11: 29

- **Tadpole transport logistics in a Neotropical poison frog: indications for strategic planning and adaptive plasticity in anuran parental care** *FRONTIERS IN ZOOLOGY*
Ringler, E., Pasukonis, A., Hoedl, W., Ringler, M.
2013; 10: 67

- **The Homing Frog: High Homing Performance in a Territorial Dendrobatid Frog *Allobates femoralis* (Dendrobatidae)** *ETHOLOGY*
Pasukonis, A., Ringler, M., Brandl, H. B., Mangione, R., Ringler, E., Hoedl, W.
2013; 119 (9): 762–68

- **Characterization of seven new polymorphic microsatellite loci in the brilliant-thighed poison frog *Allobates femoralis* (Dendrobatidae), and their cross-species utility in three other dendrobatid species** *HERPETOLOGICAL JOURNAL*
Ringler, E., Pasukonis, A., Hoedl, W., Ringler, M.
2013; 23 (3): 175–78