

Ivana Schoepf

PERSONAL DETAILS

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Birth Date 4th October 1978

Birth Place Brescia (Italy)

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Research Gate http://www.researchgate.net/profile/Ivana_Schoepf

Google Scholar <https://scholar.google.ca/citations?user=uhcctZYAAAAJ&hl=en>

APPOINTMENTS

Since 2018 **Term Adjunct Assistant Professor** - Queen's University (Canada)

Since 2017 **Research Scientist** – Virginia Tech (USA)

Since 2016 **Postdoctoral Research Fellow** - Queen's University (Canada) and Virginia Tech (USA) –
Joint collaboration between Dr. Bonier and Dr. Moore labs

2013-2016 **Postdoctoral Research Fellow** - University of the Witwatersrand (South Africa)

Since 2011 **Honorary Research Associate** - University of the Witwatersrand (South Africa)

EDUCATION

2013 **Ph.D. Evolutionary Biology** - University of Zurich (Switzerland) – Supervised by Dr. Carsten Schradin and Prof. Barbara König

2003 **M.Sc. Conservation** - University College London (United Kingdom) – Supervised by Dr. Chris Carbone (Institute of Zoology at London Zoo) and Dr. Julian Thompson

2001 **B.Sc. (Hon) Zoology** - Queen Mary University of London (United Kingdom) – Supervised by Prof. John Gurnell

PEER-REVIEWED PUBLICATIONS

18 Peer-Reviewed Publications with 258 citations.

2018 Schoenle LA, **Schoepf I**, Weinstein NM, Moore IT, Bonier F. Higher plasma corticosterone is associated with reduced costs of infection in red-winged blackbirds. *General and Comparative Endocrinology* **256**, 89-98

2017 **Schoepf I**, Pillay N, Schradin C. Trade-offs between reproduction and health in free ranging African striped mice. *Journal of Comparative Physiology B* **187 (4)**, 625-637

Schoepf I, Pillay N, Schradin C. The pathophysiology of survival. *Journal of Comparative Physiology B* **187 (1)**, 183-201

Yuen CH, **Schoepf I**, Schradin C, Pillay N. Boldness: are open field and startle tests measuring the same personality trait? *Animal Behaviour* **128**, 143-151

2016 Brunner P, **Schoepf I***, Yuen CH, König B, Schradin C. Does a mouse have a friend? Mixed evidence for individual recognition in the African striped mouse (*Rhabdomys pumilio*). *Journal of Zoology* **299 (2)**, 142-149 (* Shared first author)

Nater CR, Canale CI, Van Benthem KJ, Yuen CH, **Schoepf I**, Pillay N, Ozgul A, Schradin C. Interactive effects of exogenous and endogenous factors on demographic rates of an African rodent. *Oikos* **125 (12)**, 1838-1848

Rimbach R, Willigenburg R, **Schoepf I**, Yuen CH, Pillay N, Schradin C. Young but not old adult African striped mice reduce their activity in the dry season when food availability is low. *Ethology* **122 (10)**, 828-840

Yuen CH, Pillay N, Heinrichs M, **Schoepf I**, Schradin C. Personality traits are consistent when measured in the field and in the laboratory in African striped mice (*Rhabdomys pumilio*). *Behavioral Ecology and Sociobiology* **70 (8)**, 1235-1246

2015 **Schoepf I**, Kenkel W, Schradin C. Arginine vasopressin in brains of free ranging striped mouse males following alternative reproductive tactics. *Journal of Ethology* **33**, 235-242

Schoepf I, Schmohl G, König B, Pillay N, Schradin C. Manipulation of population density and food availability affects home range sizes of African striped mouse females. *Animal Behaviour* **99**, 53-60

Yuen CH, Pillay N, Heinrichs M, **Schoepf I**, Schradin C. Personality does not constrain social and behavioral flexibility in African striped mice. *Behavioral Ecology and Sociobiology* **69**, 1237-1249

Schradin C, Pillay N, Kondratyeva A, Yuen CH, **Schoepf I**, Krackow S. Basal blood glucose levels in free living striped mice are influenced by food availability, ambient temperature and social tactic. *Biology Letters* **11 (5)**, 20150208

- 2014 **Schoepf I**, Schradin C. Arginine vasopressin plasma levels change seasonally in African striped mice but do not differ between alternative reproductive tactics. *General and Comparative Endocrinology* **204**, 43-48
- 2013 **Schoepf I**, Schradin C. Endocrinology of sociality: comparisons between sociable and solitary individuals within the same population of African striped mice. *Hormones and Behavior* **64**, 89-94
- 2012 **Schoepf I**, Schradin C. Better off alone! Reproductive competition and ecological constraints determine sociality in the African striped mouse (*Rhabdomys pumilio*). *Journal of Animal Ecology* **81**, 649-656
- Schoepf I**, Schradin C. Flexibility in social behavior and predispositions to change reproductive tactics in African striped mice (*Rhabdomys pumilio*). *Animal Behaviour* **84**, 1159-1167
- Schradin C, Lindholm AK, Johannesen J, **Schoepf I**, Yuen CH, König B, Pillay N. Social flexibility and social evolution in mammals: a case study of the African striped mouse (*Rhabdomys pumilio*). *Molecular Ecology* **21**, 541-553
- 2010 Schradin C, Schmohl G, Rödel HG, **Schoepf I**, Treffler SM, Brenner J, Bleeker M, Schubert M, König B, Pillay N. Female home range size is regulated by resource distribution and intraspecific competition: a long-term field study. *Animal Behaviour* **79**, 195-203

AWARDS & FUNDINGS

- 2017 - Queen's University (Canada), Travel Expenses. 1000 CAD
- 2015 - University of the Witwatersrand (South Africa), Travel Expenses. 10000 ZAR
- 2015 - University of the Witwatersrand (South Africa), Postdoctoral grant extension. 187200 ZAR
- 2014 - University of the Witwatersrand (South Africa), Postdoctoral grant extension. 173000 ZAR
- 2014 - International Society of Behavioral Ecology (ISBE), Travel Bursary. 2000 USD
- 2013 - University of the Witwatersrand (South Africa), Travel Expenses. 10000 ZAR
- 2012 - University of Zurich (Switzerland), Travel Expenses. 500 CHF
- 2011 - Swiss South African Joint Research Program (SSAJRP), Travel Bursary. 1500 CHF
- 2010 - Swiss South African Joint Research Program (SSAJRP), Travel Bursary. 1500 CHF
- 2009 - Swiss Academy of Natural Sciences (Sc Nat), Travel Bursary. 2500 CHF
- 2003 - University College London (United Kingdom), Scholarship. 500 GBP
- 2001 - Queen Mary University of London (United Kingdom), Travel Expenses. 100 GBP

TEACHING & SUPERVISING

Taught courses Natural Selection and Microevolution (BIOL 439) – primary instructor, fourth year undergraduate course (winter semester 2018) - Queen's University (Canada)

Guest Lectures 2 guest lectures for Animal Behaviour (BIOL 321) on Mating Systems – third year undergraduate course (fall semester 2017) - Queen's University (Canada)

Supervision Fourth year undergraduate students (Blokurs) Muriel Büttel & Denise Küng - University of Zurich (Switzerland)

Co-supervision

Master Patrick Brunner (University of Zurich, Switzerland), Marta Wastavino (University of Basel, Switzerland) and Laureen Keller (Jean Monnet University, France)

Bachelor Nino Maag & Moritz Rövekamp (University of Zurich, Switzerland), Rachel Hughes & Samuel Lewis (University of Manchester, United Kingdom), Melissa Schollen & Remco Willigenburg (Wageningen University, The Netherlands), and Erwan Chereil (Paris Institute of Technology, France)

Undergraduate Fourth year undergraduate students (Blokurs) Joanna Stakanowitz & Sandra Balmer (University of Zurich, Switzerland)

CONTRIBUTED ORAL PRESENTATIONS

- 2018 **Schoepf I**, Moore IT, Bonier F. Effects of malarial infection on reproduction and offspring phenotype in a wild passerine - Society for Integrative and Comparative Biology Annual Meeting. San Francisco, USA.
- 2017 **Schoepf I**, Schradin C. When to live alone and when to live in groups? A field experiment of the habitat saturation hypothesis - Ecology, Evolution and Behaviour Seminar Series, Queen's University, Canada.
- 2016 **Schoepf I**, Schradin C. Habitat Saturation and Reproductive Competition Influence Sociality in an African Mammal - Queen's University Biological Station 2016 Seminars Series, Canada.
- 2015 **Schoepf I**, Yuen CH, Schradin C, Pillay N. A review of the SKRS research on the African striped mouse (*Rhabdomys pumilio*) - Arid Zones Ecology Forum Striped Mouse Field Trip, Goegap Nature Reserve, South Africa.
Schoepf I, Pillay N, Schradin C. Inter-individual variation in the ability to cope with environmental change affects health and survival in African Striped Mice - The 12th African Small Mammal Symposium, Mantasoa, Madagascar.
- 2014 **Schoepf I**, Yuen CH, Schradin C, Pillay N. Evolutionary consequences of physiological adaptation to droughts in the African striped mouse (*Rhabdomys pumilio*) - Kimberley Biodiversity Symposium, Kimberley, South Africa.
- 2012 **Schoepf I**, Schradin C. Habitat saturation and reproductive competition influence sociality in the African striped mouse (*Rhabdomys pumilio*) - Behavior 2012- Joint Meeting of the Animal Behavior Society and the International Ethological Conference, Bloomington, USA.
- 2011 **Schoepf I**, Schradin C. Reproductive Conflict versus Cooperation in Groups of the African Striped Mouse (*Rhabdomys pumilio*) - The 6th Topical Meeting of the Ethological Society, Zurich, Switzerland.
- 2011 **Schoepf I**, Schradin C. Population density and reproductive competition influence sociality in the African striped mouse (*Rhabdomys pumilio*) - The 51st Meeting of the Zoological Society of Southern Africa, Stellenbosch, South Africa.
- 2010 **Schoepf I**, Schradin C. When to Live in Groups and when to Live Solitarily? A Field Experiment in the African Striped Mouse (*Rhabdomys pumilio*) - The 13th Meeting of the International Society of Behavioral Ecology, Perth, Australia.

CONTRIBUTED POSTER PRESENTATIONS

- 2017 **Schoepf I**, Moore IT, Bonier F. Pain & gain: Increased tolerance of parasitic infection is associated with energetic costs in a migratory passerine - SICB Annual Meeting. New Orleans, USA.
- 2014 **Schoepf I**, Schradin C, Pillay N. Evolutionary consequences of physiological adaptation to droughts in the African striped mouse (*Rhabdomys pumilio*) - ISBE, New York, USA.
- 2011 **Schoepf I**, Schradin C. When to Live in Groups and when to Live Solitarily? A Field Experiment in the African Striped Mouse (*Rhabdomys pumilio*) - Biology2011, Zurich, Switzerland.
- 2010 **Schoepf I**, Schradin C. Environmental Causes of Social Flexibility: a field study in the Four Striped Mouse (*Rhabdomys pumilio*) - Spring Meeting of the Association for the Studies of Animal Behaviour, Exeter, United Kingdom.
- 2009 **Schoepf I**, Schradin C. Do environmental factors influence the endocrine system and lead to a change of the social organization in the four striped mouse? - 50th Anniversary of the ZSSA, Durban, South Africa.
- 2008 **Schoepf I**, Schradin C. The endocrinology of dispersal: A field experiment in African striped mice - The 12th Annual Meeting of the Society for Behavioral Neuroendocrinology, Groningen, The Netherlands.

WORKSHOPS AND SYMPOSIUM ATTENDANCE

- 2018 Annual Editor's Challenge: "Defining Stress" - SICB. San Francisco, USA
- 2016 11th International Symposium on Avian Endocrinology – Niagara on the Lake, Canada
- 2010 Why Behavioral Ecologists Should Care About Individual Variation in Responsiveness – ISBE. Perth, Australia

PROFESSIONAL SERVICE AND PUBLIC OUTREACH

- Invited Reviewer** - Animal Behaviour, Comparative Biochemistry and Physiology, Ethology, Journal of Ethology, Journal of Mammalogy, Population Ecology
- Presentation judge** – SICB: Division of Ecoimmunology and Disease Ecology. Student oral and posters presentations, San Francisco, USA (2018)
SICB: Division of Animal Behavior. Student posters, San Francisco, USA (2018)
- Public outreach event presenter** - Queen's University Biological Station, Canada (2016, 2017) - poster
The Ontario Field Ornithologists, Kingston, Canada (2016) - poster
Goegap Nature Reserve, South Africa (2009, 2010) - oral
University of Zurich Anniversary, Switzerland (2008) -oral
- Field trip coordinator and leader** - AZEF Field Trip, Goegap Nature Reserve, South Africa (2015)
- Symposia** - Small mammals handling symposium co-taught with Dr. Julien Raynaud, University of Zurich, Switzerland (2010, 2011)
- Respirometry Laboratory Coordinator** - Succulent Karoo Research Station, South Africa (2012-2015)
- Captive Colony Manager** - Succulent Karoo Research Station, South Africa (2006-2015)
- Research Station Manager** - Succulent Karoo Research Station, South Africa (2006-2007)
- Field Assistant** - for various small mammals projects in the United Kingdom, Belgium and South Africa (2002-2006)

PROFESSIONAL MEMBERSHIP

Association for the Studies of Animal Behaviour, the Society for Behavioral Ecology, Society for Integrative and Comparative Biology, the Society for Conservation Biology.

IN THE MEDIA

Paper chosen by Animal Behaviour for their In Focus piece (2015): Schoepf I, Schmohl G, König B, Pillay N, Schradin C. Manipulation of population density and food availability affects home range sizes of African striped mouse females. *Animal Behaviour* **99**, 53-60

Paper chosen by Journal of Animal Ecology for Virtual Issue Out of Africa (2013): Schoepf I, Schradin C. Better off alone! Reproductive competition and ecological constraints determine sociality in the African striped mouse (*Rhabdomys pumilio*). *Journal of Animal Ecology* **81**, 649-656

Radio interview broadcasted on Swiss Radio LoRa for the program *The Hard Drive - science geeks in Zurich* about my PhD research (2011)

TV News clip broadcasted on SABC News, South Africa National News outlet, about research on social flexibility in African striped mice (2010)