

# Orlin S. Todorov

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Postdoctoral Research Fellow  
School of Natural Sciences, Macroecology and Macroevolution Lab  
Macquarie University, Balaclava Road North Ryde NSW 2109 Australia

## COMPUTER SKILLS

Windows – All | Office - All  
Linux - Ubuntu (user) | **Statistical software** – R, SPSS, PHYLIP, JMP, Mesquite, Excel | **Modelling** - Netlogo | **Experiment presentation software** - E-Prime | **Image analysis software** – Neurolucida, MIPAV, ImageJ, SPM, Free Surfer, Csurf, Mimics | **Bioacoustics software** - Acid, SoundForge, Luscinia, Praat | **Photo editing software** - Photoshop, Corel Draw, GIMP

## LANGUAGE SKILLS

English: C2 Near-native  
Dutch: B2  
Spanish: A2  
Bulgarian: Native

## KEY SKILLS

Data processing  
Statistical analysis  
Writing  
Editing  
Proof-reading  
Troubleshooting

## KEY STRENGTHS

Critical eye  
Responsible  
Insightful  
Determined  
Helpful

## AWARDS

Best student in Cognitive Science  
2006, New Bulgarian University

## CAREER HIGHLIGHTS

**PHD STUDENT** at The University of Queensland supervised by Dr Vera Weisbecker and Dr Simone Blomberg  
Brisbane, Australia ▪ 2017 to 2021

**PRE-DOCTORAL RESEARCHER** at European Network for Brain Evolution Research  
Den Haag, Netherlands ▪ 2013 to 2017

**EDUCATOR | ORGANISER** at World Wildlife Fund  
Den Haag, The Netherlands ▪ 2016 - 2017

**RESEARCH ASSISTANT** at Birkbeck Centre for Neuroimaging, UCL  
London, UK ▪ 2012

**RESEARCH ASSISTANT** at Behavioural Biology Group, Utrecht University  
Utrecht, NL ▪ 2010

**WRITER | EDITOR** at PC Mania Magazine  
Sofia, Bulgaria ▪ 1999 - 2010

## ACHIEVEMENTS

- + More than 10 years of research experience: experiment design, statistical analysis, behavioural and cognitive testing, writing
- + Career in journalism, more than 10 years: writing and editing for different media
- + Experience in working and studying in international environment in the UK, The Netherlands, Bulgaria, USA, Hungary, Australia.

## EDUCATION

**MRES IN BEHAVIOURAL AND COGNITIVE NEUROSCIENCE**  
Groningen University (2008-2010)  
Specialization: Animal and Human Behaviour

**BSC IN COGNITIVE SCIENCE AND PSYCHOLOGY**  
New Bulgarian University (2002-2007)

**HIGH SCHOOL DIPLOMA** from Sofia Mathematics High School

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## Peer-reviewed publications:

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### **2022**

de Sousa, Alexandra A., **Todorov, Orlin S.**, Proulx, Michael J. (2022). A natural history of vision loss: Insight from evolution for human visual function, *Neuroscience & Biobehavioral Reviews*, 134 (104550)

### **2021**

**Todorov, O. S.**, Blomberg, S. P., Goswami, A., Sears, K., Drhlík, P., Peters, J., & Weisbecker, V. (2021). Testing hypotheses of marsupial brain size variation using phylogenetic multiple imputations and a Bayesian comparative framework. *Proceedings of the Royal Society B*, 288(1947), 20210394.

### **2020**

Proulx, M. J., Brown, D. J., Lloyd-Esenkaya, T., Leveson, J. B., **Todorov, O. S.**, Watson, S. H., & de Sousa, A. A. (2020). Visual-to-auditory sensory substitution alters language asymmetry in both sighted novices and experienced visually impaired users. *Applied Ergonomics*, 85, 103072.

Milham, M., Petkov, C. I., Margulies, D. S., Schroeder, C. E., Basso, M. A., Belin, P., ... & Messinger, A. (2020). Accelerating the evolution of nonhuman primate neuroimaging. *Neuron*, 105(4), 600-603.

De Sousa, Alexandra A., **Todorov, Orlin S.** and Proulx, Michael J. (2020). Is human brain organization economical? Brain region metabolic rates in relation to size changes in evolution and life history. 89th Annual Meeting of the American Association-of-Physical-Anthropologists (AAPA), Los Angeles Ca, Apr 15-18, 2020. HOBOKEN: WILEY

### **2019**

**Todorov, O. S.**, Weisbecker, V., Gilissen, E., Zilles, K., & de Sousa, A. A. (2019). Primate hippocampus size and organization are predicted by sociality but not diet. *Proceedings of the Royal Society B*, 286(1914), 20191712.

**Todorov, O. S.** (2019). Marsupial Cognition. Encyclopedia of Animal Cognition and Behavior. Cham: Springer International Publishing.1-8.[https://doi.org/10.1007/978-3-319-47829-6\\_1167-1](https://doi.org/10.1007/978-3-319-47829-6_1167-1)

### **2018**

Navarrete A. F., Blezer E. L. A., Pagnotta M., de Viet E. S. M., **Todorov O. S.**, Lindenfors P., Laland K. N., Reader S. M., Primate Brain Anatomy: New Volumetric MRI Measurements for Neuroanatomical Studies. *Brain Behav Evol* 2018;91:109-117

Milham, M. P., Ai, L., Koo, B., Xu, T., Amiez, C., Balezeau, F., et al. (2018). An Open Resource for Non-human Primate Imaging. *Neuron*.

## **2017**

**O.S. Todorov** and A. de Sousa (2017): *Evolution of the occipital lobe*, in Digital Endocasts – From Skulls to Brains, Editors Emiliano Bruner, Naomichi Ogihara, Hiroki C. Tanabe, Springer Japan

## **2016**

Proulx, Michael J, **Todorov, Orlin S.**, Taylor Aiken, Amanda, de Sousa (2016): *Where am I? Who am I? The relation between spatial cognition, social cognition and individual differences in the built environment*, Frontiers in Psychology, January 2016, 10.3389/fpsyg.2016.00064

## **Tutoring:**

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- 2018 Animal Behaviour (BIOL3207, The University of Queensland)
- 2018 Vertebrate Diversity and Evolution (BIOL3320, The University of Queensland)
- 2019 Biostatistics (BIOL2006, The University of Queensland)
- 2020 Evolution (BIOL2201, The University of Queensland)
- 2021 Biostatistics (BIOL2006, The University of Queensland)

## **Teaching courses:**

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- 2019 Contemporary approaches to university teaching, CAULLT - Council of Australasian University Leaders in Learning and Teaching
- 2020 An Introduction to the Alda Method, Faculty of Science, University of Queensland

## **Editor for:**

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Nature: Scientific Reports  
Proceedings of the Royal Society: B  
Ecology and Evolution  
Biology Letters  
Evolution  
Journal of Mammalian Evolution  
PCI Evolutionary Biology  
Frontiers in Psychology  
Personality and Individual Differences

## **Grant review:**

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**2022** Swiss Academy of Sciences (SCNAT)

## **Academic achievements and conference participation:**

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**2021** Presentation on “Evolution of the mammalian brain: Using phylogenetic comparative methods to study brain evolution in three mammalian clades” – From Fossil To Mind Workshop organised by South African Neuroscience Society, Cape Town, SA

Resume: Orlin S. Todorov

- 2020** Presentation on 'Primate hippocampus size and organization are predicted by sociality but not diet' – the annual meeting of the American Association of Physical Anthropology, Los Angeles, CA
- 2018** Poster presentation on 'The cellular structure of mammalian cognition: Comparative neuronal morphology of the marsupial brain' – 64<sup>th</sup> annual meeting of the Australian Mammals Society
- 2017** Poster presentation on 'The social brain hypothesis and the hippocampus' - 7th Annual European Society for the Study of Human Evolution, Leiden, The Netherlands – with Anna van Oosterzee and Dr. Alexandra de Sousa
- 2016** Poster presentation on 'Laterality of sensory substitution' – North Sea Laterality Meeting, Groningen, The Netherlands
- 2008** Poster presentation on BSc thesis project 'Executive control and criminal conduct' - Summer Institute on Social Cognition, Montreal, Canada
- 2007** Graduated among the "Best Students in New Bulgarian University" for 2007 and earned a place in the "Catalogue of the Best Students"

#### **Academic exchange programmes:**

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- 2008** CEEPUS Specialisation Course, Budapest, Hungary, Eotvos Lorand University, Ethology Department
- 2006/2007** Erasmus Program in Nijmegen University, Nijmegen, The Netherlands. Preparation of Bachelor Thesis under the supervision of Prof. Daniel Wigboldus

#### **Intern experience**

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##### **2013- 2017**

Working on various projects with Dr. Alexandra de Sousa (Bath-Spa University):

- Evolution of brain sexual dimorphism in primates
- Bonobo self-domestication hypothesis
- Home range and hippocampus evolution
- The role of personality in shaping the wayfinding abilities in humans

- 2012 Birkbeck – UCL Centre for Neuroimaging**, London, United Kingdom Research Assistant  
*"Into the Glass Mind: How Glass in Contemporary Architecture Shapes Perception, Action, and Social Behaviour"*  
 Under the supervision of Dr. Alexandra de Sousa
- 2010 Behavioural Biology Group, Utrecht University**, The Netherlands  
 Major Masters project *"The Evolution of the Prefrontal Brain Areas Related to Executive Functions in Primates"*  
 Under the supervision of Dr. Simon Reader (Utrecht University, The Netherlands) and Dr. Alexandra de Sousa (Queen Mary College, London)
- 2009 Animals@work, Behavioural Biology Unit, Groningen University** and Behavioural Biology Group, Leiden University, The Netherlands  
 Minor Masters project *"Singing in Hard Foraging Conditions: How Foraging Conditions Shape Zebra Finch Song Quality and Preference?"*  
 Under the supervision of Prof. Simon Verhulst (Groningen) and Dr. Katharina Riebel (Leiden)
- 2007 Experimental Psychology Lab, New Bulgarian University**

Resume: Orlin S. Todorov

## Work Experience

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<b>2022</b>	Lisboa Caffé, Brisbane, Australia, Hospitality
<b>2016 - 2017</b>	World Wildlife Fund, Den Haag, Netherlands, Educator
<b>2016 – 2017</b>	BG Beer NL, Den Haag Netherlands, Craft beer import
<b>2015 - 2016</b>	Werkcafé, Den Haag, Netherlands, Writer
<b>2014 - 2015</b>	Alternativa Magazine, Sofia, Bulgaria, Writer
<b>2012 - 2013</b>	SRD Kaart en Kunst, Den Haag, The Netherlands, Design, management
<b>2009 – 2011</b>	Vice Magazine, Sofia, Bulgaria, Writer
<b>2006 – 2007</b>	Magazine “Telephone” part of Hi-Comm group, Sofia, Bulgaria, Writer/editor
<b>2004 – 2006</b>	Gramis, Sofia, Bulgaria, Localization and translation of computer games in Bulgarian
<b>2004 / 2005</b>	Eagle Van Lines, Temple Hills, Maryland, USA, Household moving crew leader
<b>2004</b>	Clockwork, Sofia, Bulgaria, Data processing
<b>2003 – 2005</b>	Corstjens Worldwide Movers, Sofia, Bulgaria, Mover
<b>2002 – 2003</b>	Hi-Tech, Bulgaria - Assistant in radio and TV show
<b>1999 – 2010</b>	PC Mania Magazine, Sofia, Bulgaria, Journalist/writer/editor

## Membership

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- ◆ Member of the **American Association of Physical Anthropology** (AAPA)
- ◆ Member of **European Network for Brain Evolution Research** (ENBER)
- ◆ Member of **British Ecological Society**
- ◆ Member of **The Society for Study of Evolution**
- ◆ Member of World Wildlife Fund
- ◆ Member of Survival International
- ◆ Member of Project Reason

*I have a broad interest in science and philosophy and love reading and collecting books. I enjoy listening to and playing all kinds of music and play the guitar and the bass. When I can, I prefer spending my time outdoors where I entertain observing nature in all forms. To mention a few favourite outdoor activities I love, I do road cycling, swimming, running, birdwatching, and hiking. Languages fascinate me and I love etymology. Games, cooking, craft beer and nerding out on different stuff are also activities that I love.*