

Tobias Morville  
tobiasmorville@gmail.com  
<https://tmorville.github.io/>

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## Education

- 2010 - 2013 **M.Sc. in Economics**, *University of Copenhagen*.  
◦ Masters thesis on a model of choice using reinforcement learning.
- 2006 - 2010 **B.Sc. in Economics**, *University of Copenhagen*.  
◦ Bachelor thesis on econometric time-series modelling.

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## Academia

- Nov 14 - **Ph.D. Student**, *University of Copenhagen*.  
◦ Ph.D. in computational neuroscience.
- Oct 12 - Nov 13 **Research Assistant**, *Danish Research Centre for Magnetic Resonance*.  
◦ Analysis of behavioural data while working on my masters thesis.

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## Research stays

- Aug 15 - Feb 16 **London Mathematical Laboratory**, *Dr. Ole Peters*.  
◦ Training in statistical physics and information theory.
- Nov 14 - Feb 16 **The Francis Crick Institute**, *Professor Denis Burdakov*.  
◦ Design of optogenetic experimental regime.
- Aug 15 - Feb 16 **University College London**, *Wellcome Trust Centre for Neuroimaging*.  
◦ Attended weekly theoretical neurobiological meetings in Karl Fristons group.

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## Teaching

- Feb 14 - Jul 14 **TA, Neuroimaging Foundations**, *University of Copenhagen*.  
◦ A mixture of basic math and statistics made concrete through programming in Matlab and made meaningful by philosophy of science.
- Dec 12 - Jul 13 **External lecturer and supervisor**, *Metropolitan University College*.  
◦ A short course on basic statistics, supervision on bachelor thesis level.

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## Training

### Special training

- Aug 16 **Summer School on semi-supervised learning**, *DTU*.  
◦ Introduction to supervised, semi-supervised and unsupervised learning.
- Jun 15 **Complex Systems Summer School**, *Santa Fe Institute*.  
◦ Introduction to a broad array of scientific fields within complexity research.  
Research project: *Free Energy in Statistical Physics, Information Theory and beyond*.

## P.hD. courses

**Neuroimaging Foundations**, *University of Copenhagen, DRCMR* .

**Neuroimaging Basics**, *University of Copenhagen, DRCMR* .

**The Emotional Brain**, *University of Copenhagen, CIMBI* .

**Statistical Parametric Mapping**, *University of Copenhagen, DRCMR* .

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## Writing

### Peer reviewed

- May 16 **Tuning the Brake While Raising the Stake: Network Dynamics during Sequential Decision-Making**, *Journal of Neuroscience*.

### In review

- Dec 16 **Four Fallacies in the Pursuit of Gambling**, *Plos ONE: Economics*.

### Working papers

**Homeostatic Control Theory**, *P.hD. Thesis*.

**The Homeostatic Logic of Reward**.

**Phenotyping Losers**.

### Conference abstracts

- May 16 **Decision-making and the Dynamics of Death**, *The 38th International Symposium of the Groupe de recherche sur le système nerveux central (GRSNC)*.

- Nov 15 **The Homeostatic Logic of Reward**, *Society for Neuroscience*.

- Jul 14 **The Homeostatic Logic of Reinforcement Learning**, *Workshop on Information Theoretic Incentives for Artificial Life*.

### Outreach

- Nov 13 **Rational, as on the savannah (Danish article)**, *Weekendavisen #47 | Ideer | 22. Nov – 28. Nov 2013*.

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## Invited talks

- May 16 **The 38th Symposium of Neuroscience of Decision Making**, *Decision Making and the Dynamics of Death*.
- Nov 14 **Society for Neuroscience**, *The Homeostatic Logic of Reward*.
- Jun 14 **Conference for Artificial Life**, *The Homeostatic Logic of Reinforcement Learning*.
- Mar 13 **CNEE Experimental Economics Workshop**, *Autocorrelation Biases in a Sequential Gambling Task*.
- May 13 **CNEE Neuroeconomics Workshop**, *Homeostatic Reinforcement Learning*.

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## Experience in industry

- Aug 10 - Jan 14 **Freelance consultant**, *Weekendavisen*.  
Implementation and analysis of subscribers database.
- Apr 09 - Mar 12 **Student Researcher**, *DAMVAD consultancy agency*.  
Econometric analysis.
- May 08 - Mar 09 **Student Researcher**, *Wealth Management, SEB Enskilda*.  
Maintaining performance spreadsheets using visual basic.
- Feb 07 - May 08 **Student Researcher**, *Danish Oil Industry Association*.  
Ad-hoc analysis and article writing.

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## Grants and funding

- Lundbeck Foundation 1 000 000 d.kr.
- Travel Grants 50 000 d.kr.
- Personal Grants 15 000 d.kr.