

Tobias Morville  
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<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.

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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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## Talks

Jan 17 **Neurograduate Symposium at University of Copenhagen**, *Homeostatic Control Theory.*

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.*

## 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.