Dr. Tobias Morville
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Current

Nov 17 -	**Research Consultant**, *Danish Research Centre for Magnetic Resonance*.
	o Analysis of imaging data & scientific writing.
Nov 17 -	**Senior Data Scientist**, *2021.ai*.
	o Design and implementation of client tailored machine learning algorithms.

Academia

Nov 14 - Oct 17	**Ph.D. in Computational Neuroscience**, *University of Copenhagen*.
	o Authored Homeostatic Control Theory.
Oct 12 - Nov 13	**Research Assistant**, *Danish Research Centre for Magnetic Resonance*.
	o Analysis of behavioural data.
2010 - 2013	**M.Sc. in Economics**, *University of Copenhagen*.
	o Masters thesis on a model of choice using reinforcement learning.
2006 - 2010	**B.Sc. in Economics**, *University of Copenhagen*.
	o Bachelor thesis on econometric time-series modelling.

Research stays

Aug 15 - Feb 16	**London Mathematical Laboratory**, *Dr. Ole Peters*.
	o Training in statistical physics and information theory.
Nov 14 - Feb 16	**The Francis Crick Institute**, *Professor Denis Burdakov*.
	o Design of optogenetic experimental regime.

Teaching

Feb 14 - Jul 14	**TA, Neuroimaging Foundations**, *University of Copenhagen*.
	o 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*.
	o A short course on basic statistics, supervision on bachelor thesis level.

Training

Special training

Aug 16	**Summer School on semi-supervised learning**, *DTU*.
	o Introduction to supervised, semi-supervised and unsupervised learning.

Jun 15 **Complex Systems Summer School**, *Santa Fe Institute*.

o 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*.

Writing

Peer reviewed

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

In review

May 16 **Patient profiling for success after weight loss surgery (GO Bypass Study): An interdisciplinary study protocol**, *Contemporary Clinical Trials Communications*.

Working papers

Reward Signalling under Glycemic Flux.

The Homeostatic Logic of Reward.

Four Fallacies in the Pursuit of Gambling.

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*.

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.