Martin Schrimpf

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Education

Since 2017	Massachusetts Institute of Technology (MIT), PhD program
	Department of Brain and Cognitive Sciences.
	Advisor: James DiCarlo.
2014 - 2017	TU & LMU Munich & University of Augsburg, Master of Science
	Elite Program Software Engineering. GPA 4.0 w/ honors.
	Thesis completed at Harvard University .
2011 - 2014	TU Munich, Bachelor of Science
	Program Information Systems.
	Thesis completed at the University of Sydney .

Research and Industry Experience 2017 Salesforce Firstein Al Deen Learning Inte

2017	Salesforce Einstein AI, Deep Learning Intern
	Advisor: Richard Socher.
	Flexible architecture search for natural language processing with
	reinforcement learning and predictive function.
2016	Harvard Medical School, Research Assistant
	Advisor: Gabriel Kreiman.
	Recurrent computations for the recognition of occluded objects in
	humans and models; Robustness of neural networks to weight
	perturbations; Role of context for object recognition.
2015 - 2016	Oracle Labs, Research Assistant
	Development of an on-demand cluster database module.
Since 2015	Integreat Digital Factory, Co-Founder / Technical Advisor (since 2017)
	Digitization projects in social sector. Platform for local information
	distribution to refugees in dozen of German cities.
2012 - 2015	Martin Schrimpf Software Solutions, Freelancer
	Led the development of a document management system with
	optical character recognition to make the client company paper-free.
2015	Siemens AG, Software Engineering Intern
	Behavior-driven testing framework to run a test specification
	written in natural language.

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Publications

2018	Bashivan, P., Schrimpf, M., Ajemian, R., Rish, I., Riemer, M. & Tu, Y. Continual Learning with Self-Organizing Maps. <i>Neural Information Processing Systems (NeurIPS) Continual Learning Workshop</i>
2018	Arend, L., Han, Y., Schrimpf, M., Bashivan, P., Kar, K., Poggio, T., DiCarlo, J. J. & Boix, X. Single units in a deep neural network functionally correspond with neurons in the brain: preliminary results. <i>CBMM Memo</i>
2018	Kubilius*, J., Schrimpf*, M., Nayebi, A., Bear, D., Yamins, D. L. K. & DiCarlo, J. J. CORnet: Modeling the Neural Mechanisms of Core Object Recognition. <i>bioRxiv</i>
2018	Schrimpf*, M., Kubilius*, J., Hong, H., Majaj, N. J., Rajalingham, R., Issa, E. B., Kar, K., Bashivan, P., Prescott-Roy, J., Schmidt, K., Yamins, D. L. K. & DiCarlo, J. J. Brain-Score: Which Artificial Neural Network for Object Recognition is most Brain-Like? <i>bioRxiv</i> (covered by <i>Science</i>)
2018	Schrimpf*, M., Merity*, S. & Socher, R. A Flexible Approach to Automated RNN Architecture Generation. <i>ICLR</i>
2018	Tang*, H., Schrimpf*, M., Lotter*, W., Moerman, C., Paredes, A., Ortega Caro, J., Hardesty, W., Cox, D. & Kreiman, G. Recurrent computations for visual pattern completion. <i>PNAS</i>
2017	Cheney*, N., Schrimpf*, M. & Kreiman, G. On the Robustness of Convolutional Neural Networks to Internal Architecture and Weight Perturbations. <i>CBMM Memo</i>
2016	Schrimpf, M., Tang, H., Lotter, W., Paredes, A., Ortega Caro, J., Hardesty, W., Cox, D. & Kreiman, G. Recurrent computations for pattern completion. <i>NIPS Brains and Bits Workshop</i>

Presentations

03/2019	Center for Brain-Inspired Computing (C-BRIC)
	Brain-Score: Which Artificial Neural Network for Object
	Recognition is most Brain-Like?
02/2019	Computational and Systems Neuroscience (Cosyne)
	Using Brain-Score to Evaluate and Build Neural Networks for
	Brain-Like Object Recognition
02/2019	Center for Brains, Minds and Machines (CBMM)
	Transforming machine learning models into brain models
09/2018	Cognitive Computational Neuroscience (CCN)
	Brain-Score: Which Artificial Neural Network Best Emulates the
	Brain's Neural Network?
02/2018	Tenenbaum Lab, MIT
	A Flexible Approach to Automated RNN Architecture Generation
12/2016	Brains & Bits, NIPS Workshops
	Recurrent computations for pattern completion

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10/2016 Systems Club, Harvard Medical School

Recurrent computations for pattern completion

2019	Patrick J. McGovern, Travel award
2018	Google.org , <i>Impact Challenge</i> (<i>Integreat</i>) [finalist, 250,000€]
2017	MIT, Henry E. Singleton Fellowship [tuition and stipend]
2017	Council of Europe, European Youth Award (Integreat) [winner]
2016	DAAD German Academic Exchange Service, FITweltweit [scholarship for research abroad]
2016	University of Augsburg, Teilstipendium [scholarship]
2016	Government of Swabia , <i>Integrationspreis</i> (<i>Integreat</i>) [competition winner]
2015	Federal Ministry for Education and Research, Roland und Ute Lacher Fonds, Deutschlandstipendium [scholarship]
2014	Bavarian State Ministry, Ministeriumsstipendium [scholarship]
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Teaching 2019	Harvard-MIT Computational Neuroscience Journal Club
	Harvard-MIT Computational Neuroscience Journal Club Deep Networks and PyTorch
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2019	Deep Networks and PyTorch Neural Mechanisms of Cognitive Computation
2019	Deep Networks and PyTorch Neural Mechanisms of Cognitive Computation Graduate course, Teaching Assistant
2019 2019	Deep Networks and PyTorch Neural Mechanisms of Cognitive Computation Graduate course, Teaching Assistant MIT BCS Peer Lectures
2019 2019 2017 Service	Deep Networks and PyTorch Neural Mechanisms of Cognitive Computation Graduate course, Teaching Assistant MIT BCS Peer Lectures Introduction to Deep Learning
2019 2019 2017	Deep Networks and PyTorch Neural Mechanisms of Cognitive Computation Graduate course, Teaching Assistant MIT BCS Peer Lectures

Grant Writing

2019	UG1 (Clinical Research), Baylor + MIT
2019	IBM Large Project Proposal, MIT + IBM

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