

# Mehraveh Salehi

Summary Analytics ([smr.ai](https://smr.ai)), Chief Experience Officer (CXO)

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EDUCATION	<ul style="list-style-type: none"><li>◇ <b>Yale University</b>, New Haven, CT 2014 - 2019<ul style="list-style-type: none"><li>• Ph.D. in Electrical Engineering<ul style="list-style-type: none"><li>◇ Thesis: Individualized and Task-Specific Functional Brain Mapping<ul style="list-style-type: none"><li>* Received <a href="#">Bell Labs Prize</a> and <a href="#">3 Minute Thesis Award</a></li></ul></li><li>◇ Research interests: Machine Learning, Computational Biology</li></ul></li><li>• M.Sc. in Electrical Engineering</li><li>• Completed coursework towards Master of Business Administration (MBA)</li></ul></li><li>◇ <b>Sharif University of Technology</b>, Tehran, Iran 2010 - 2014<ul style="list-style-type: none"><li>• B.Sc. in Electrical Engineering (Communication Systems and Networks)</li></ul></li></ul>
WORK EXPERIENCE	<ul style="list-style-type: none"><li>◇ <b>Summary Analytics Inc.</b>, Seattle, WA 2019 - Present Chief Experience Officer (CXO)</li><li>◇ <b>Google DeepMind Technologies</b>, Montreal, QC, Canada Fall 2018 Research Intern Project: A neuroscience-motivated approach to attention mechanism in reinforcement learning (RL)</li><li>◇ <b>Summary Analytics Inc.</b>, Seattle, WA 2018 - 2019 Research Scientist (part-time)</li><li>◇ <b>Optical Networks Research Laboratory (ONRL)</b>, Tehran, Iran Summer 2013 Research Intern Project: Analysis of Underwater Optical CDMA Communication</li></ul>
AWARDS AND HONORS	<ul style="list-style-type: none"><li>◇ <b>Winner of Bell Labs Prize</b> November 2021</li><li>◇ <b>Winner of 3 Minute Thesis Competition at the United Nations</b>, among all Ivy League Schools April 2019</li><li>◇ <b>Facebook MAIN Award</b>, Montreal Artificial Intelligence and Neuroscience (MAIN) Conference December 2018</li><li>◇ <b>Tananbaum Fellowship</b>, Yale Graduate School of Arts and Sciences 2017 - 2018</li><li>◇ <b>Young Scientist Award</b>, 20th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI) September 2017</li><li>◇ <b>Advanced Graduate Leadership Program (AGLP) Fellowship</b>, Yale Graduate School of Arts and Sciences 2016 - Present</li><li>◇ <b>Iranian National Elites Foundation Grant</b>, awarded to the top 0.03% of engineering students nationally 2010 - 2014</li><li>◇ <b>Ranked 74<sup>th</sup></b> in Iran's nation-wide university entrance exam, among over 400,000 participants June 2010</li><li>◇ <b>National Organization for Development of Exceptional Talents (NODET)</b> member 2004 - 2010</li></ul>

## PUBLICATIONS

- ◇ William D. McIntyre, Reza Nemati, **Mehraveh Salehi**, Colin C. Aldrich, Molly FitzGibbon, Limin Deng, Manuel A. Pazos et al. **“Agnostic Framework for the Classification/Identification of Organisms Based on RNA Post-Transcriptional Modifications.”** Analytical Chemistry (2021).
- ◇ Dustin Scheinost, **Mehraveh Salehi**, R. Todd Constable, and Marisa Spann. **“Individual Differences in the Functional Organization of Infants.”** Biological Psychiatry 89, no. 9 (2021): S78.
- ◇ Corey Horien, Stephanie Noble, Abigail S. Greene, Kangjoo Lee, Daniel S. Barron, Siyuan Gao, David O'Connor, **Mehraveh Salehi**, Javid Dadashkarimi et al. **“A hitchhiker’s guide to working with large, open-source neuroimaging datasets.”** Nature human behaviour 5, no. 2 (2021): 185-193.
- ◇ Dustin Scheinost, **Mehraveh Salehi**, R. Todd Constable, and Marisa Spann. **“Identifying Individual Differences in the Functional Organization of the Neonatal Brain.”** Biological Psychiatry 87, no. 9 (2020): S82.
- ◇ **Mehraveh Salehi**, Abigail S. Greene, Amin Karbasi, Xilin Shen, Dustin Scheinost, and R. Todd Constable. **“There is no single functional atlas even for a single individual: Parcellation of the human brain is state dependent.”** NeuroImage 208 (2020): 116366.
- ◇ **Mehraveh Salehi**, Amin Karbasi, Xilin Shen, Dustin Scheinost, and R. Todd Constable. **“State-specific individualized functional networks form a predictive signature of brain state.”** NeuroImage 206 (2020): 116233. (Received the [Best Poster Award](#) at Yale BioImaging Sciences Retreat)
- ◇ **Mehraveh Salehi**, Eser Aygun, Shibl Murad, Doina Precup. **“A top-down, bottom-up attention model for reinforcement learning.”** In Multidisciplinary Conference on Reinforcement Learning and Decision Making (2019) (Received [Student Travel Fellowship](#))
- ◇ Dustin Scheinost, Stephanie Noble, Corey Horien, Abigail S. Greene, Evelyn MR Lake, **Mehraveh Salehi**, Siyuan Gao et al. **“Ten simple rules for predictive modeling of individual differences in neuroimaging.”** NeuroImage (2019).
- ◇ **Mehraveh Salehi**, Amin Karbasi, Xilin Shen, Dustin Scheinost, and R. Todd Constable. **“An exemplar-based approach to individualized parcellation reveals the need for sex specific functional networks.”** NeuroImage 170 (2018): 54-67.
- ◇ **Mehraveh Salehi**, Amin Karbasi, Dustin Scheinost, and R. Todd Constable. **“A submodular approach to create individualized parcellations of the human brain.”** In International Conference on Medical Image Computing and Computer-Assisted Intervention, pp. 478-485. Springer, Cham, 2017. (Received the [Best Paper Award](#) and the [Travel Award](#); Featured in [Yale News](#))
- ◇ Mohammad J. Salehi, **Mehraveh Salehi**, Hamidreza Bagheri, Babak H. Khalaj, Marcos Katz, and Pavel Loskot. **“Exploiting Relative Consensus Techniques in Future Advanced Communication Networks in the Presence of Failures.”** International Conference on Electrical Engineering and Applications, 4-6 April 2014, Athens, Greece.

TEACHING  
AND  
MENTORING  
EXPERIENCE

- ◇ **Yale University (Teaching Assistant)**  
Dynamic & Discrete Optimization (Spring 2018), Medical Software Design (Spring 2017), Engineering Innovation and Design (Fall 2016), Stochastic Processes (Spring 2016)
- ◇ **Sharif University of Technology (Teaching Assistant)**  
Digital Signal Processing (Spring 2014), Electrical Engineering Principles (Fall 2013), Communication Systems (Fall 2013), Introduction to Probability (Spring 2013), Computer Architectures (Fall 2012)

INVITED TALKS	◇ <b>Winter Seminar Series (WSS)</b> Sharif University of Technology, Tehran, Iran	January 2021
	◇ <b>Resana's Annual Conference on Technology (ReACT)</b> Sharif University of Technology, Tehran, Iran	December 2020
	◇ <b>Google DeepMind</b> Montreal, QC, Canada	July 2019
	◇ <b>Magnetic Resonance Research Center (MRRC)</b> Yale University, New Haven, CT	January 2019
	◇ <b>Montreal Artificial Intelligence and Neuroscience Conference (MAIN)</b> Montreal, QC, Canada	December 2018
	◇ Invited talk at <b>University of Montreal (UdeM)</b> Montreal, QC, Canada	November 2018
	◇ Invited talk at <b>Yale Institute for Network Science (YINS)</b> Yale University, New Haven, CT	June 2018
	◇ Invited talk at <b>Google NYC Research Seminars (Google AI)</b> New York City, NY	December 2017
CONTRIBUTED WORKSHOP PRESENTATIONS	◇ Invited judge at <b>Yale Hackathon (YHack)</b> Yale University, New Haven, CT	December 2017
	◇ Poster presentation at <b>Reinforcement Learning and Decision Making (RLDM)</b> Montreal, QC, Canada	July 2019
	◇ Symposium organization on "Cognitive Brain Atlasing" at <b>Organization for Human Brain Mapping (OHBM)</b> Rome, Italy	June 2019
	◇ Poster presentation at <b>Montreal Artificial Intelligence and Neuroscience Conference (MAIN)</b> Montreal, QC, Canada	December 2018
	◇ Poster presentation at <b>Yale BioImaging Sciences Retreat</b> Southbury, CT (Received the Best Poster Award)	March 2018
	◇ Poster presentation at <b>Biennial Brain Function Workshop</b> Whistler, BC, Canada	March 2018
	◇ Poster presentation at International Conference on <b>Medical Image Computing and Computer Assisted Intervention (MICCAI)</b> Quebec City, QC, Canada (Received the Travel Award)	September 2017
	◇ Poster presentation at <b>Society for Neuroscience (SFN)</b> Annual Meeting San Diego, CA	November 2016

LEADERSHIP AND SYNERGISTIC ACTIVITIES	<ul style="list-style-type: none"> <li>◇ <b>Women of MENA In Technology (WoMENAIT)</b> 2020 - Present Responsible for the digital marketing activities of Seattle Team</li> <li>◇ <b>Advanced Graduate Leadership Program Fellow (AGLP)</b> 2016 - 2019 Contributing to the seminar series organized to hone skills in research, leadership, and public outreach</li> <li>◇ <b>Women in Science at Yale (WISAY)</b> 2015 - 2019 Providing mentorship to undergraduate science students</li> <li>◇ <b>Sharif Conference on Future Electronics (SCFE)</b> Spring 2012 Chair of Advertising Committee</li> <li>◇ <b>Professional Membership:</b> Institute of Electrical and Electronics Engineers (IEEE), Organization for Human Brain Mapping (OHBM), Society for Neuroscience (SfN), Iran's National Elites Foundation (INEF), National Organization for Development of Exceptional Talents (NODET)</li> <li>◇ <b>Served as a Reviewer</b> for journals and conferences across disciplines: <ul style="list-style-type: none"> <li>• <b>Neuroscience:</b> Organization for Human Brain Mapping (OHBM) Brain Structure and Function (BS&amp;F), NeuroImage, IEEE Transactions on Biomedical Engineering, IEEE Transactions on Medical Imaging, Journal of Neuroscience Methods</li> <li>• <b>Machine Learning:</b> Neural Information Processing Systems (NeurIPS), Association for the Advancement of Artificial Intelligence (AAAI), Knowledge Discovery and Data Mining (KDD), International World Wide Web Conference (WWW)</li> </ul> </li> </ul>
COURSEWORK	<ul style="list-style-type: none"> <li>◇ <b>Yale University (Engineering and Applied Science)</b> Optimization Techniques (Fall 2017), Probabilistic Graphical Models (Fall 2016), Data Mining and Machine Learning (Spring 2016), Network Algorithms and Stochastic Optimization (Spring 2015), Stochastic Processes (Fall 2015)</li> <li>◇ <b>Yale University (MBA Program)</b> Interpersonal and Group Dynamics (Spring 2019), Creativity and Innovation (Spring 2017), Entrepreneurship and New Ventures (Fall 2016)</li> <li>◇ <b>Sharif University of Technology</b> Data Transmission and Networking (Spring 2014), Signals and Systems (Fall 2013), Digital Signal Processing (Fall 2013), Digital Communication (Spring 2013), Advanced Programming (Spring 2013), Probability and Statistics (Spring 2012), Advanced Engineering Mathematics (Fall 2011)</li> </ul>
SKILLS	<ul style="list-style-type: none"> <li>◇ <b>Programming:</b> C/C++, Python, MATLAB, R, HTML, Tcl/Tk, Java, Android</li> <li>◇ <b>Frameworks and Tools:</b> Git, Eigen, Scikit, PyTorch, TensorFlow, Simulink, D3, Gephi</li> <li>◇ <b>Languages:</b> Persian (native), English (fluent), Turkish (fluent), Arabic (basic)</li> </ul>
REFERENCES	<ul style="list-style-type: none"> <li>◇ Available upon request.</li> </ul>