

# Jorge Méndez-Méndez

## Curriculum Vitae

Stony Brook University  
145 Light Engineering

E-mail: [jorge.mendezmendez@stonybrook.edu](mailto:jorge.mendezmendez@stonybrook.edu)

Website: [jorge-a-mendez.github.io](https://jorge-a-mendez.github.io)

---

## RESEARCH INTERESTS

My primary research interest is the creation of versatile, intelligent, embodied agents that learn to better interact with the world by accumulating knowledge over their lifetimes. I focus on the question of how these agents can leverage various forms of compositional and modular structures to transform the complex problem of modeling a lifelong data stream into simpler problems that can be more easily solved and whose solutions can be adapted, recombined, and reused in the future. My work mainly applies these methods to robotics, and also engages with related fields like computer vision and natural language.

---

## ACADEMIC APPOINTMENTS

### Stony Brook University

2024–Present *Assistant Professor* of Electrical and Computer Engineering

### Massachusetts Institute of Technology

2022–2024 *Postdoctoral Fellow* with Leslie Pack Kaelbling and Tomás Lozano-Pérez

### University of Pennsylvania

2022 *Postdoctoral Researcher* with Eric Eaton

2016–2022 *Research Assistant* with Eric Eaton

---

## EDUCATION

May 2022 **Ph.D. in computer and information science**, *University of Pennsylvania*

Thesis: “Lifelong machine learning of functionally compositional structures.”

Advisor: Eric Eaton. Committee: Dan Roth (chair), Pratik Chaudhari, Kostas Daniilidis, and George Konidaris (Brown University).

August 2018 **M.S.E. in robotics**, *University of Pennsylvania*

Advisor: Eric Eaton.

April 2016 **B.S. *summa cum laude* in electronics engineering (*Ingeniero electrónico*)**, *Universidad Simón Bolívar*, Venezuela

Thesis: “Implementation of algorithms and debugging for STMicroelectronics wearable platform” (*Desarrollo de algoritmos y depuración de la plataforma ponible de STMicroelectronics*). [Awarded “**Exceptionally Good**” distinction]

Advisors: Daniele Caltabiano (STMicroelectronics), Giacomo Boracchi (Politecnico di Milano), Novel Certad (Universidad Simón Bolívar).

2014–2015 **Exchange graduate student in computer science**, *Politecnico di Milano*, Italy

---

## HONORS AND AWARDS

2022–2024 MIT-IBM Distinguished Postdoctoral Fellowship

2021 3<sup>rd</sup> place award of the Two Sigma Diversity PhD Fellowship (**\$5,000**)

2020 **Best paper** award at the 4<sup>th</sup> Lifelong Learning Workshop at ICML for “Lifelong learning of factored policies via policy gradients”

2021, 2022 **Outstanding reviewer** or equivalent at ICLR, ICML, and NeurIPS

- 2016 Exceptionally Good Thesis award at Universidad Simón Bolívar for “Implementation of algorithms and debugging for STMicronics wearable platform”
- 2015, 2016 Top 30 GPAs at Universidad Simón Bolívar among students in the final two years
- 2011 Top 10 GPAs at Universidad Simón Bolívar (3 / 750) among first-year students
- 2010 Top 50 entrance placement exams at Universidad Simón Bolívar (25 / 7409)

## OTHER RESEARCH APPOINTMENTS

### Facebook AI Research

Jun. 2021–Sep. 2021 *Research Intern* with Arthur Szlam and Ludovic Denoyer

### Microsoft Research, Montréal

Jun. 2020–Sep. 2020 *Research Intern* with Harm van Seijen

### Facebook AI Applied Research

May 2019–Aug. 2019 *Research Intern* with Alborz Geramifard and Mohammad Ghavamzadeh

## PUBLICATIONS

\*Equal contribution

### Journal Articles

- [J20] K. O’Brien, N. Ng, I. Puri, **J. Méndez-Méndez**, H. Palangi, Y. Kim, M. Ghassemi, and T. Hartvigsen. Improving black-box robustness with in-context rewriting. *Transactions on Machine Learning Research (TMLR)*, 2024.
- [J19] B. Wang, **J. Méndez-Méndez**, C. Shui, F. Zhou, D. Wu, G. Xu, C. Gagné, and E. Eaton. Gap minimization for knowledge sharing and transfer. *Journal of Machine Learning Research (JMLR)*, 24(33):1–57, 2023.
- [J18] **J. Méndez-Méndez** and E. Eaton. How to reuse and compose knowledge for a lifetime of tasks: A survey on continual learning and functional composition. *Transactions on Machine Learning Research (TMLR)*, 2023. [survey certification]
- [J17] M. M. Baker, A. New, M. Aguilar-Simon, Z. Al-Halah, S. M. R. Arnold, E. Ben-Iwhiwhu, A. P. Brna, E. Brooks, R. C. Brown, Z. Daniels, A. Daram, F. Delattre, R. Dellana, E. Eaton, H. Fu, K. Grauman, J. Hostetler, S. Iqbal, C. Kent, N. Ketz, S. Kolouri, G. Konidaris, D. Kudithipudi, E. Learned-Miller, S. Lee, M. L. Littman, S. Madireddy, **J. Méndez-Méndez**, E. Q. Nguyen, C. D. Piatko, P. K. Pilly, A. Raghavan, A. Rahman, S. K. Ramakrishnan, N. Ratzlaff, A. Soltoggio, P. Stone, I. Sur, Z. Tang, S. Tiwari, K. Vedder, F. Wang, Z. Xu, A. Yanguas-Gil, H. Yedidsion, S. Yu, and G. K. Vallabha. A domain-agnostic approach for characterization of lifelong learning systems. *Neural Networks*, 160:274–296, 2023.

### Conference Papers

- [C16] M. Hussing, **J. Méndez-Méndez**, A. Singrodia, C. Kent, and E. Eaton. Robotic manipulation datasets for offline compositional reinforcement learning. In *Proceedings of the Reinforcement Learning Conference*, 2024.
- [C15] B. Cieślak, L. P. Kaelbling, T. Lozano-Pérez, and **J. Méndez-Méndez**. Learning long-horizon action dependencies in sampling-based bilevel planning. In *Proceedings of the 8th Annual Conference on Robot Learning (CoRL-24)*, 2024.
- [C14] **J. Méndez-Méndez**, L. P. Kaelbling, and T. Lozano-Pérez. Embodied lifelong learning for task and motion planning. In *Proceedings of the 7th Conference on Robot Learning (CoRL-23)*, 2023.

- [C13] **J. Méndez-Méndez**<sup>\*</sup>, M. Hussing<sup>\*</sup>, M. Gummadi, and E. Eaton. CompoSuite: A compositional reinforcement learning benchmark. In *Proceedings of the 1st Conference on Lifelong Learning Agents (CoLLAs-22)*, 2022.
- [C12] **J. Méndez-Méndez**, H. van Seijen, and E. Eaton. Modular lifelong reinforcement learning via neural composition. In *10th International Conference on Learning Representations (ICLR-22)*, 2022. [acceptance rate: 32%]
- [C11] M. Gummadi, C. Kent, **J. Méndez-Méndez**, and E. Eaton. SHELS: Exclusive feature sets for novelty detection and continual learning without class boundaries. In *Proceedings of the 1st Conference on Lifelong Learning Agents (CoLLAs-22)*, 2022.
- [C10] **J. Méndez-Méndez** and E. Eaton. Lifelong learning of compositional structures. In *9th International Conference on Learning Representations (ICLR-21)*, 2021. [acceptance rate: 29%; invited talk at ContinualAI October Online Meetup]
- [C9] **J. Méndez-Méndez**, B. Wang, and E. Eaton. Lifelong policy gradient learning of factored policies for faster training without forgetting. In *Advances in Neural Information Processing Systems 33 (NeurIPS-20)*, 2020. [acceptance rate: 20%]
- [C8] B. Wang, **J. Méndez-Méndez**, M. Cai, and E. Eaton. Transfer learning via minimizing the performance gap between domains. In *Advances in Neural Information Processing Systems 32 (NeurIPS)*, 2019.
- [C7] **J. Méndez-Méndez**, S. Shivkumar, and E. Eaton. Lifelong inverse reinforcement learning. In *Advances in Neural Information Processing Systems 31 (NeurIPS-18)*, 2018.

### Workshop Papers

- [W6] A. Ejilemele and **J. Méndez-Méndez**. Continual improvement of threshold-based novelty detection. In *CoLLAs-23 Workshop Track*, 2023.
- [W5] M. Hussing<sup>\*</sup>, **J. Méndez-Méndez**<sup>\*</sup>, C. Kent, and E. Eaton. Robotic manipulation datasets for offline compositional reinforcement learning. In *CoRL 2022 Workshop on Pre-training Robot Learning*, 2022. [contributed spotlight talk]
- [W4] **J. Méndez-Méndez** and E. Eaton. Lifelong learning of factored policies via policy gradients. In *4th Lifelong Learning Workshop at the International Conference on Machine Learning (LML-ICML-20)*, 2020. [**best paper award**; contributed talk—oral acceptance rate: 10%]
- [W3] **J. Méndez-Méndez** and E. Eaton. A general framework for continual learning of compositional structures. In *Continual Learning Wokrshop at the International Conference on Machine Learning (CL-ICML-20)*, 2020.
- [W2] **J. Méndez-Méndez**, A. Geramifard, M. Ghavamzadeh, and B. Liu. Reinforcement learning of multi-domain dialog policies via action embeddings. In *3rd Conversational AI Workshop at Neural Information Processing Systems (ConvAI-NeurIPS)*, 2019. [contributed talk—oral acceptance rate: 16%]

### Theses

- [T1] **J. Méndez-Méndez**. *Lifelong machine learning of functionally compositional structures*. Ph.D. thesis, University of Pennsylvania, 2022.

## TEACHING

### Stony Brook University

- Spring-25 ESE 564 Artificial Intelligence for Robotics
- Fall-24 ESE 577 Deep Learning Algorithms and Software

### University of Pennsylvania

- Fall-19, Spring-20 *Instructor* for CIS 192 Python Programming
- Fall-17 *Head Teaching Assistant* for CIS 419/519 Introduction to Machine Learning

### Universidad Simón Bolívar

- Fall-13,14, *Teaching Assistant* for CI 2125 Programming I
- Winter-13,14,16,  
Spring-13,14
- Spring-12 *Teaching Assistant* for EC 2272 Electric Circuit Analysis II
- Winter-12 *Teaching Assistant* for MA 1112 Calculus II
- Fall-11 *Teaching Assistant* for MA 1111 Calculus I

## INVITED TALKS

- December 2024 **Workshop on Scalable Continual Learning for Lifelong Foundation Models at NeurIPS**, *Unlocking Lifelong Robot Learning With Modularity*
- February 2024 **Continual Causality Bridge at AAI**, *Causal Models for Lifelong Robot Learning and Where to Find Them (position talk)*
- October 2023 **Computer Science Seminar at Rutgers University**, *Unlocking Lifelong Robot Learning With Modularity*
- October 2023 **Forum for Artificial Intelligence at UT Austin**, *Unlocking Lifelong Robot Learning With Modularity*
- October 2023 **Machine Learning and Friends Lunch at UMass Amherst**, *Unlocking Lifelong Robot Learning With Modularity*
- October 2022 **Lifelong Robotics Workshop at IROS**, *Lifelong Robot Learning via Functional Compositionality*
- February 2022 **University of Western Ontario**, *Creating Versatile Learning Agents Via Lifelong Compositionality*
- February 2022 **Toyota Research Institute**, *Creating Versatile Learning Agents Via Lifelong Compositionality*
- October 2020 **Continual AI Online Meetup**, *Lifelong Learning of Compositional Structures*

## SUPERVISED STUDENTS

### Ph.D. Students

- 2024–Present Alexander Zuzow, SBU CS: 3D robotic perception
- 2024–Present Pratyush Kumar, SBU CS: task and motion planning

### Master's Students

- 2024–2025 Kunqi Li, SBU CE: object location uncertainty quantification (Master's thesis)
- 2024–2025 Zhou Yu, SBU EAI: object location uncertainty quantification (Master's thesis)

## Undergraduate Students

2024–Present Xiang Liu, SBU CS: learning for robot planning.

## Co-advised Students (primary advisor listed)

- 2019–2022 Meghna Gummadi, Penn CIS PhD (Prof. Eric Eaton): novelty detection and compensation (CoLLAs)
- 2021–2022 Marcel Hussing, Penn CIS PhD (Prof. Eric Eaton): compositional reinforcement learning (CoLLAs)
- 2016–2018 Shashank Shivkumar, Penn ROBO MSE (Prof. Eric Eaton): lifelong learning from demonstration (Master’s thesis, NeurIPS). Next: Advanced AI Engineer, Honeywell
- 2017–2018 Varun Gupta, Penn ROBO MSE (Prof. Eric Eaton): lifelong reinforcement learning. Next: Perception Engineer, Rivian
- 2019 Srinath Rajagopalan, Penn CIS MSE (Prof. Eric Eaton): lifelong reinforcement learning. Next: Software Engineer, Amazon Robotics
- 2020–2021 Wenxuan Zhang, Penn AMCS MSE (Prof. Eric Eaton): lifelong non-stationary learning (Master’s thesis). Next: PhD student at King Abdullah University of Science and Technology
- 2023–2024 Quincy Johnson, MIT EECS MEng (Prof. Leslie Kaelbling): learning for task and motion planning
- 2023–2024 Bartłomiej Cieślars, Imperial College London CS; MIT EECS MEng (SuperUROP, Prof. Tomás Lozano-Pérez): learning for task and motion planning (CoRL). Next: PhD student at Imperial College London
- 2017 Monica Vyavahare, Penn CIS BSE (Prof. Eric Eaton): lifelong learning from demonstration. Next: Software Engineer, Amazon Robotics
- 2021 Spencer Solit, Penn CIS BSE (Prof. Eric Eaton): compositional reinforcement learning
- 2022–2023 Parul Singh, MIT EECS BS (SuperUROP, Prof. Leslie Kaelbling): compositional off-line reinforcement learning
- 2022–2024 Abe Ejilemele, MIT EECS BS (Prof. Leslie Kaelbling): task-free lifelong learning

---

## PROFESSIONAL SERVICE

### Organization

- 2025 Tutorials Chair for Conference on Lifelong Learning Agents
- 2022 Finance and Sponsorship Co-Chair for LatinX in AI Workshop at NeurIPS

### Journal Article Reviewing

- 2023 IJRR, International Journal of Robotics Research

### Conference Paper Reviewing

- 2020, 2021<sup>†</sup>, 2022, 2024 NeurIPS, Conference on Neural Information Processing Systems
- 2020, 2021, 2023 ICRA / RA-L, International Conference on Robotics and Automation
- 2021<sup>†</sup>, 2022<sup>†</sup>, 2023, 2024, 2025 ICLR, International Conference on Learning Representations
- 2021<sup>†</sup>, 2025 ICML, International Conference on Machine Learning
- 2023, 2024 NeurIPS Datasets and Benchmarks Track

- 2024, 2025 CoRL, Conference on Robot Learning
- 2024 RLC, Reinforcement Learning Conference
- 2025 RSS, Robotics Science and Systems
- <sup>†</sup>Outstanding reviewer or equivalent

### Conference Paper Co-reviewing

- 2019 AAAI, Conference on Artificial Intelligence
- 2017–2019 IJCAI, International Joint Conference on Artificial Intelligence
- 2018 ICML, International Conference on Machine Learning
- 2018 NeurIPS, Neural Information Processing Systems

### Workshop Proposal Reviewing

- 2021 AAAI, Conference on Artificial Intelligence

### Workshop Paper Reviewing

- 2022 InterNLP Workshop at NeurIPS

---

## OTHER APPOINTMENTS

### Capital One

May 2017–Aug. 2017 *Data Science Intern*, Credit Card Data Science Division

### STMicroelectronics

Feb. 2015–Jul. 2015 *Research & Development Intern*, Advanced Systems Technology Group