Dr. Robert Johnson

Department of Computer Science, Stanford University
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Research Interests

Machine Learning, Natural Language Processing, Computer Vision, Deep Learning, Artificial Intelligence, Human-Computer Interaction

Education

Ph.D. in Computer Science *2018 - 2023*
Massachusetts Institute of Technology (MIT), Cambridge, MA
Dissertation: *"Advanced Neural Architectures for Natural Language Understanding"*
Advisor: Prof. Jane Smith — GPA: 4.0/4.0

M.S. in Computer Science *2016 - 2018*
Stanford University, Stanford, CA
Thesis: *"Deep Learning Approaches to Sentiment Analysis"*
GPA: 3.95/4.0

B.S. in Computer Science *2012 - 2016*
University of California, Berkeley, CA
Summa Cum Laude — GPA: 3.98/4.0

Academic Positions

Assistant Professor *2023 - Present*
Department of Computer Science, Stanford University, Stanford, CA

- Teaching graduate and undergraduate courses in Machine Learning and NLP
- Leading research group of 8 Ph.D. students and 4 postdoctoral researchers
- Secured $2M in research funding from NSF and industry partners

Postdoctoral Researcher *2023*
Computer Science and Artificial Intelligence Laboratory (CSAIL), MIT, Cambridge, MA

- Conducted research on large language models and their applications
- Collaborated with industry partners on AI safety and alignment

Selected Publications

Journal Articles

1. **Johnson, R.**, Smith, J., & Brown, A. (2024). "Efficient Transformers for Long-Context Understanding." *Nature Machine Intelligence*, 6(2), 123-145. [Impact Factor: 25.8]

2. **Johnson, R.**, Lee, K., & Chen, M. (2023). "Neural Architecture Search for Natural Language Processing." *Journal of Machine Learning Research*, 24(1), 1-42.

3. Smith, J., **Johnson, R.**, & Davis, P. (2023). "Multimodal Learning with Vision and Language Models." *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 45(8), 3456-3478. [Impact Factor: 24.3]

Conference Papers

1. **Johnson, R.**, et al. (2024). "Scaling Laws for Large Language Models." *Proceedings of NeurIPS 2024*. (Oral Presentation, Acceptance Rate: 0.5%)

2. **Johnson, R.**, & Smith, J. (2023). "Few-Shot Learning with Prompt Engineering." *Proceedings of ACL 2023*, pp. 1234-1245. (Best Paper Award)

3. Chen, M., **Johnson, R.**, et al. (2023). "Attention Mechanisms in Vision Transformers." *Proceedings of CVPR 2023*, pp. 5678-5690.

4. **Johnson, R.**, Brown, A., & Lee, K. (2022). "Transfer Learning for Low-Resource Languages." *Proceedings of EMNLP 2022*, pp. 3456-3467.

Grants & Funding

- **NSF CAREER Award** ($500,000) *2024 - 2029*
  "Foundations of Efficient and Interpretable Neural Language Models"
- **Google Research Award** ($150,000) *2024*
  "Multimodal AI for Accessibility Applications"
- **Amazon Research Award** ($100,000) *2023*
  "Large Language Models for Code Generation"
- **NSF Graduate Research Fellowship** ($138,000) *2018 - 2021*

Teaching Experience

Stanford University

- CS 229: Machine Learning (Graduate) *Fall 2023, Fall 2024*

- CS 224N: Natural Language Processing with Deep Learning *Spring 2024*
- CS 221: Artificial Intelligence: Principles and Techniques *Winter 2024*

MIT

- 6.036: Introduction to Machine Learning (Teaching Assistant) *2019 - 2022*
- 6.864: Advanced Natural Language Processing (Guest Lecturer) *2022*

Honors & Awards

- ACL Best Paper Award *2023*
- MIT Presidential Fellowship *2018*
- NSF Graduate Research Fellowship *2018*
- Berkeley EECS Distinguished Graduate Award *2016*
- Phi Beta Kappa Honor Society *2016*

Professional Service

Conference Reviewing: NeurIPS, ICML, ICLR, ACL, EMNLP, CVPR, ICCV
Journal Reviewing: JMLR, TACL, IEEE TPAMI
Program Committee: ACL 2024 (Area Chair), EMNLP 2024 (Senior PC)
Workshop Organization: Co-organizer, Workshop on Efficient NLP at EMNLP 2024

Technical Skills

Programming: Python, C++, Java, R, MATLAB
ML Frameworks: PyTorch, TensorFlow, JAX, Hugging Face Transformers
Tools: Git, Docker, Kubernetes, AWS, Google Cloud Platform
Languages: English (Native), Spanish (Fluent), Mandarin (Intermediate)