

PROMOTION RECOMMENDATION
The University of Michigan
College of Engineering
Department of Electrical Engineering and Computer Science

Harsha Madhyastha, assistant professor of electrical engineering and computer science, Department of Electrical Engineering and Computer Science, College of Engineering, is recommended for promotion to associate professor of electrical engineering and computer science, with tenure, Department of Electrical Engineering and Computer Science, College of Engineering.

Academic Degrees:

Ph.D.	2008	University of Washington, Computer Science and Engineering, Seattle
M.S.	2006	University of Washington, Computer Science and Engineering, Seattle
B.Tech.	2003	Indian Institute of Technology, Computer Science and Engineering, Madras, India

Professional Record:

2015 – present	Assistant Professor, Department of Electrical Engineering and Computer Science, University of Michigan
2014	Visiting Assistant Professor, Department of Electrical Engineering and Computer Science, University of Michigan
2010 – 2014	Assistant Professor, Computer Science and Engineering Department, University of California, Riverside
2008 – 2010	Post-Doctoral Scholar, Computer Science and Engineering Department, University of California, San Diego

Summary of Evaluation:

Teaching: Since joining the University of Michigan, Professor Madhyastha has done an outstanding job of teaching two key undergraduate and graduate courses. His passion and his engaging classroom presence are important elements of his success. Professor Madhyastha has also shown that he is a dedicated and successful mentor of graduate student research. He graduated seven Ph.D. students while at the University of California, Riverside, and currently has another three students in good standing here at Michigan. Student evaluations indicate Professor Madhyastha has been an effective and popular teacher in the classroom.

Research: Professor Madhyastha is an expert in the area of networking. He is highly regarded in the community for his work in internet measurement and optimization. He has published extensively at the very best forums in his field. Moreover, he has been successful in attracting significant research funding (over \$1.9M) from federal agencies (NSF, ARO, IARPA) and industry (Google, NetApp), including a CAREER award from NSF, establishing a vigorous research program with real-world impact.

Recent and Significant Publications:

- Pietro Marchetta, Italo Cunha, Matt Calder, Yi-Ching Chiu, Brandon Schlinker, Bruno Machado, Antonio Pescapè, Vasilis Giotsas, Harsha V. Madhyastha, and Ethan Katz-Bassett, “Sibyl: A Practical Internet Route Oracle,” *Proceedings of the 13th USENIX Symposium on Networked Systems Design and Implementation (NSDI’16)*, Santa Clara, CA, March 2016.
- Shailendra Singh, Harsha V. Madhyastha, Srikanth V. Krishnamurthy, and Ramesh Govindan, “FlexiWeb: Network-Aware Compaction For Accelerating Mobile Web Transfers,” *Proceedings of the 21st Annual International Conference on Mobile Computing and Networking (MobiCom’15)*, Paris, France, September 2015.
- Michael Butkiewicz, Daimeng Wang, Zhe Wu, Harsha V. Madhyastha, and Vyas Sekar, “Klotski: Reprioritizing Web Content to Improve User Experience on Mobile Devices,” *Proceedings of the 12th USENIX Symposium on Networked Systems Design and Implementation (NSDI’15)*, Oakland, CA, May 2015.
- Masoud Akhoondi, Curtis Yu, and Harsha V. Madhyastha, “LASTor: A Low-Latency AS-Aware Tor Client,” *IEEE/ACM Transactions on Networking*, 2014, 22(6), pp. 1742-1755.
- Zhe Wu, Michael Butkiewicz, Dorian Perkins, Ethan Katz-Bassett, and Harsha V. Madhyastha, “SPANStore: Cost-Effective Geo-Replicated Storage Spanning Multiple Cloud Services,” *Proceedings of the 24th Symposium on Operating Systems Principles (SOSP’13)*, Nemaconlin Woodlands Resort, PA, November 2013.

Service: Professor Madhyastha has made important contributions to service. Internally, he has served on important committees, including faculty search, graduate admissions, and strategic planning. Prior to his arrival at Michigan, he also served on the faculty search committee at UC Riverside. Externally, he has served on the technical program committees of prestigious conferences in his field.

External Reviewers:

Reviewer A: “... Harsha’s work is highly regarded in the community, and it has had significant intellectual and real-world impact. ...Harsha would have no trouble obtaining tenure here at [my institution].”

Reviewer B: “Harsha’s research record is great! It’s marvelous to see that he’s kept up a quality stream of publications since he started at Michigan.”

Reviewer C: “Harsha’s publication record is stellar. The venues that he has published in...are among the most impactful venues across *all* of computer science, ...I have no hesitation in recommending him strongly for tenure.”

Reviewer D: “Harsha is an energetic researcher with a well established track record of high-impact work. If he were up for promotion for the same position at [my institution], I am certain that he would be promoted.”

Reviewer E: “Harsha is a rising star in networked systems. ...I would fully expect him to be promoted to Associate Professor with tenure in our department without hesitation if he were on our faculty.”

Summary of Recommendation: Professor Madhyastha has established a high-impact record of teaching, scholarly research, and service at the University of Michigan. It is with the support of the College of Engineering Executive Committee that I recommend Harsha Madhyastha for promotion to associate professor of electrical engineering and computer science, with tenure, Department of Electrical Engineering and Computer Science, College of Engineering.



Alec D. Gallimore, Ph.D.
Robert J. Vlasic Dean of Engineering
College of Engineering

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