CURRICULUM VITAE

Mahesh Agarwal

University of Michigan-Dearborn
Department of Mathematics and Statistics
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1. Education

Ph.D. – Mathematics **Aug 2007**
University of Michigan, Ann Arbor, MI
Advisor: Dr. Christopher Skinner

Society of Actuaries exams passed

- Fundamentals of Actuarial Mathematics - LongTerm (2023), Predictive Analytics (2022), Short-Term Actuarial Mathematics (2022), Investment and Financial Markets (2022), Statistics for Risk Modeling (2021), Financial Mathematics(2021), Probability (2021)

M.Sc. – Mathematics **June 2001**
Indian Institute of Technology, Kanpur, India

B.Sc. – Mathematics **June 1999**
Delhi University, Delhi, India

2. Teaching and Research Interests

1. Number theory
2. Data Science

3. Employment History

Associate Professor **Sept 2015 to present**
Department of Mathematics and Statistics
University of Michigan - Dearborn, Dearborn, Michigan

Research Fellow - Data Scientist **May 2017 to Dec 2017**
Harvard Medical School, Boston, Massachusetts
Partners Healthcare, Boston, Massachusetts

Visiting Faculty **Jan 2017 to Dec 2017**
Department of Mathematical Sciences
Bentley University, Waltham, Massachusetts

Assistant Professor **Sept 2009 to July 2015**
Department of Mathematics and Statistics
University of Michigan - Dearborn, Dearborn, Michigan

Postdoctoral Fellow **Sept 2007 to Sept 2009**
Department of Mathematics and Statistics
McMaster University, Hamilton, Ontario

4. Honors and Awards

1. Outstanding Graduate Instructor Award (University wide), 2007
2. Outstanding Graduate Instructor Award, Department of Mathematics, 2006
3. National Board of Higher Mathematics Scholarship, India, 1999-2001

5. Research Activities

A. Publications

a) Papers Published in Refereed Journals

[1] Vydiswaran, V., Strayhorn, A., Zhao, X., Robinson, P., **Agarwal, M.**, et al, "Hybrid bag of approaches to characterize selection criteria for cohort identification", *Journal of the American Medical Informatics Association*, volume 26, issue 11, November 2019, pages 1172-1180.

[2] De Veaux, R., **Agarwal, M.**, et.al., "Curriculum Guidelines for Undergraduate Programs in Data Science," *Annual Review of Statistics and Its Application*, vol 4, 2017, pages 2.1-2.16.

[3] **Agarwal, M.**, Natarajan, N., "Inheritance relations of hexagons and ellipses," *The College Mathematics Journal*, vol 46, issue 3, May 2016, 7 pages.

[4] **Agarwal, M.**, Clifford, J. and Lachance, M.,"Duality and Inscribed Ellipses," *Computational Methods and Function Theory*, vol 15, 2015, pages 635-644.

[5] **Agarwal, M.** and Brown, J., "Saito-Kurokawa lifts of square-free level," *Kyoto Journal of Mathematics*, volume 55, number 3, 2015, 641-662.

[6] **Agarwal, M.** and Brown, J., "On the Bloch-Kato conjecture for elliptic modular forms of square free level," *Mathematische Zeitschrift,* 276, no. 3-4 , 2014, pp. 889-924.

[7] **Agarwal, M.** and Klosin, K.,"Yoshida lifts and the Bloch-Kato conjecture for the convolution L-function," *Journal of Number Theory* vol. 133, 2013, pp. 2496-2537.

b) Book Chapters

[8] **Agarwal, M.**, Carter, N. and Oury, D. "Machine Learning," In Carter, N. (Ed.), *Data Science for Mathematicians*, Taylor and Francis, 2020