Phi Le

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Research interest

Statistics in Health Science

- Disease Mapping
- Survival Analysis
- Spatial-Temporal Analysis/Survival Analysis
- Study Design
- GWAS
- Multi-Omics with or without Longitudinal Analysis

AI in Health Science

• Applications of Machine Learning/Neural Network to Health Science

Employment

Syracuse, NY Syracuse University Fall 2016 – Spring 2018

• Postdoctoral fellow in Pure Mathematics

Education

Jackson, MS University of Mississippi Medical Center Fall 2018 –

• Research student in Biostatistics and Data Science

Columbia, MO University of Missouri Columbia Fall 2011 – 2016

• Ph.D in Mathematics

Teaching Experience

Syracuse University Fall 2016-Spring 2018

- Calculus I, II, III
- Introduction to Partial Differential Equations
- Putnam coach for Mathematics team (my student got ranked 59th for all students across US and Canada)

Teaching Assistant University of Missouri Fall 2011 – Summer 2016

• Courses: Calculus I, II, III

Awards

Jackson, MS University of Mississippi Medical Center Spring 2019

Associated Student Body award in Education category

Columbia, MO University of Missouri Columbia Fall 2011-Summer 2016

- Invited to Hausdorff Research Institute for Mathematics, Bonn, Germany, for one month with full support May 2014
- Highest scores for Ph.D Analysis Qualifying Exams in Mathematics Spring 2011

Professional Service

Jackson, MS University of Mississippi Medical Center Spring 2019

- President of the UMMC chaper of American Statistics Association
- Chair of Data Science Officer of School of Population Heath in the UMMC Associated Student Body

Publications

Biostatistics and Health Science

- 1. Effect of disparities on continuity and healthcare utilization among patients with obesity-associated chronic conditions (OCC) and the subgroup with diabetes (OCC+T2D) (first author, in progress)
- 2. Disparities of geography, economy, education, and uninsured rate on COVID19 cases and deaths in Mississippi (first author, submitted)
- 3. Continuity of Care for Patients with Obesity-Associated Chronic Conditions: Protocol for a Multisite Retrospective Cohort Study, JMIR Res Protoc 2020;9(9):e20788

Mathematics

- 1. Sharp affine Trudinger-Moser inequalities: A new argument, Canadian Mathematical Bulletin, 1-14, 2020
- 2. Quantum divergences with p-power means, Linear Algebra and its Applications 609, 289-307, 2020
- 3. Hardy Inequalities and Caffarelli-Kohn-Nirenberg inequalities with radial derivative, with Nguyen Tuan Duy, Weijia Yin, 2020 Journal of Mathematical Inequalities, to appear
- 4. Sharp Trudinger-Moser inequalities with homogeneous weights, with Duy, Nguyen Tuan; Nghia, Le Trung; Electron J. Differential Equations 2019, N. 205
- 5. Carleson measure estimates and the Dirichlet problem for degenerate elliptic equations, with Steve Hofmann and Andrew Morris, ANALYSIS & PDE, Volume 12, No. 8, 2019
- 6. BMO solvability and absolute continuity of harmonic measure, with Steve Hofmann, The Journal of Geometric Analysis, Volume 28, Issue 4, pp 3278–3299
- 7. Uniform Rectifiability and harmonic measure IV: Ahlfors regularity plus Poisson kernels in Lp implies uniform rectifiability, with Steve Hofmann, Kaj Nystrom, Jose Maria Martell, Analysis and PDEs. Vol 10. No. 3 2017
- 8. Nonlinear versions of Stampacchia and Lax-Milgram theorems and applications, with Duong M. Duc and Nguyen H. Loc, Nonlinear Anal. 68 (2008), no. 4, 925931

Google Scholar Citations - 11/2020

Citations	65
h-index	3
i10-index	2

Languages and Technologies

- SQL; SAS; R; Python; STATA; Julia (Beginning); Linux; Windows; MacOS; HPC
- Bioconductor: DESeq2, limma, EdgeR, rTANDEM