**Shabnam Mehra, PhD, MSPH**

Faculty, Instructor-I

**Office Personal**

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 [www.linkedin.com/in/shabnam-mehra-phd/](http://www.linkedin.com/in/shabnam-mehra-phd/)

**Education**

**Graduate Certificate in Artificial Intelligence** 2024

University of South Florida, College of Engineering, Tampa, FL

**2017 Doctor of Philosophy (PhD) in Public Health**2017

University of South Florida, College of Public Health, Tampa, FL

Department of Environmental and Occupational Health

[*Dissertation*](https://scholarcommons.usf.edu/etd/6730)*: “Estimating the impact of select criteria pollutant on childhood asthma in Florida using available Health Impact Assessment methods.”*

**Master of Science in Public Health**1999

University of South Florida, College of Public Health, Tampa, FL

Department of Epidemiology and Biostatics, Concentration: Epidemiology

*Thesis: “The prevalence rate and the predictors of pneumococcal vaccination in the elderly”*

**Masters in Biotechnology** 1994

University of New South Wales, Sydney, Australia.

Department of Biotechnology and Genetics

*Thesis: “Genetic Decoding of Lactcococus Bacilli using PCR”*

**Bachelor of Science**1990

Delhi University, Gargi College, New Delhi, India

*Major: Statistical Mathematics, Analytical Biochemistry and Chemistry.*

**Professional Experience**

**College of Public Health, University of South Florida** -Tampa, FL 2023- present

**Instructor-I, Undergraduate Studies** (Aug 2023 – current)

**Director, Undergraduate Programs** (Aug 2023 to Jun 2024)

Instruction Duties included

* Teaching core public health courses mainly but not limited to Introduction to Health Professions, Introduction to Public Health; Intro to Environmental and Occupational Health, Health Services Planning and Evaluation (PHC 6146);
* Supervising undergraduate public health and health 2000 to 4000 level courses for successful delivery
* Mentoring undergraduate students and clubs and supervising graduate students
* Develop courses: *Intro to Analytics in Health and Public Health* ; *Intro to Informatics in Public Health*

Administration Duties as Director for undergraduate programs and included

* Program and curriculum development for Bachelor of Science programs in Health Science and Public Health
* Faculty recruitment and development for all undergraduate courses and programs in public health
* Strategic leadership and partnership for enrollment management and across campus
* Community engagement and outreach for student recruitment and internships

**Hillsborough Community College,** Tampa, FL 2022-2023

 **Department Chair for Business Intelligence and Computer Science** (Aug 2022 - Aug 2023)

* Lead overall administration as Chair of Business Intelligence and Computer Science department at YBOR
* Mentor and guide student for successful completion and “on track” pathway in partnership with advisors
* Manage and expand the AS and CC programs for Business Intelligence and Health Informatics
* Develop, plan and manage curriculum for Data Analytics, Student Success, and Student Wellbeing
* Core Committee member HCC foundation scholarship and student success committee.
* Enrollment management and planning for department using Predictive Analytics and Forecasting
* Instructor for Business Intelligence I& II (projects on Teradata), Medical Terminology, Management Information Systems, Computer Science Literacy, Programming in R, STA 2023, SLS- First Year Experience

**Office of Decision Support, University of South Florida** -Tampa, FL 2011-2022

**Consultant, Student Success Research & Analytics** (Feb 2016-Jul 2022)

**Director, Student Success Research & Analytics,** (Nov 2016-Jan 2022)

**Assistant Director, Institutional Research & Analysis** (Jul 2015- Nov 2016)

**Senior Institutional Research Associate, Planning & Analysis** (Jan 2011 – Jun 2015)

* Head of high-performance 15+ team of Associate/Assistant directors, managers, statistical data analysts, ERP analyst and TA/GAs while maximizing data analytics to support student success, enrollment planning, goal setting
* Established a diverse skilled team, responsible for transforming data into actionable dynamic reports and dashboards (75+) built on diverse platforms, *i.e. Power BI, SAS Viya, Tableau*, delivered via one centralized business intelligence Hub on Azure cloud to campuses and colleges
* Provided support to senior leadership including President Cabinet for monitoring and improving strategic initiatives. Achieved greater operational efficiency by tracking key performance metrics (54+), streamlining processes and facilitating data-driven decision-making for student success and enrollment management.
* Stewardship and Governance of Federal surveys i.e., IPEDS, USNEWS; and support for SACSOC and accreditation
* Agile Team player, collaborated with RMA and IT on 20 + complete project cycles i.e., Banner workflow

**WellCare Inc.,** Tampa, FL 2009-2010

 **Senior Business Analyst** (Ap 2009 - Dec 2010)

* Lead for Gap Analysis for service utilization and intervention using SAS and SQL
* Collaborated with several Medicare markets on intervention projects for diverse and indigent
* Responsible for project and data management of Medicare market plans for chronic conditions
* Responsible for HEDIS submission for chronic conditions and diabetes management

**University of South Florida- Health,** Tampa, FL 2000-2009

**Statistician / Senior Database Manager** (Apr 2006- Mar 2009)

**Senior Policy Analyst/ Policy Analyst** (Aug 2000 - Apr2006)

* Performed Predictive analysis of BIG Data including State Mental Health- FL AHCA (Medicaid/Medicare) Utilization Data, University Athletics, OSCAR Nursing home data FDLE, Survey of Housing, BRFSS, Survey of Income Participation (SIPP) and the Medical Expenditure Panel Survey
* Lead statistical analysis on impact of state policies on service utilization at nursing homes, Medicaid / Medicare
* Conducted Statistical Analysis Predictive, GLM, Repeated Measures Analysis, Logistic Regression (10+/year)
* Conducted service utilization and cost analysis (Penetration, PUPY, PUPM, case mix adjustment)
* Made impact on policy changes included in Bills presented at State legislature.

**Moffitt Cancer Center, University Of South Florida**- Tampa, FL 1999-2000

 **Research Associate and Study Coordinator (**May 1999 - Aug 2000)

* Managed statistical analysis, computer programming, systems operations, survey and needs assessments design, and technical reports for BRCA and other genetic studies in women.

**Fellowship and Trainings**

**Leadership Trainings**  <https://www.credly.com/users/shabnam-mehra>

Diversity, Equity, and Inclusion at Workplace2021

Post-Crisis Leadership Certificate2020

Mid-Level Leadership Certificate2020

**Organizational Development Training** Resource Management, Building/ Developing Teams 2014

**Public Health Leadership and Systems Thinking Certificate Program** 2014

**National Data Institute Fellowship,** NCES, NSF and AIR- Washington D.C2013

**National Network of Environmental Management Studies Fellowship,** USEPA- RTP, NC2009

**Summer Biostatistics Intern Florida Medical Quality Assurance Inc.** -Tampa, FL 1998

**Administrative and Community Service**

**Reviewer for NIH-AIM-Ahead (Artificial Intelligence/Machine Learning Consortium)**

* Reviewer for [AIM-AHEAD ScHARe Equity in Population Health AI: Beyond EHR Training Program](https://www.aim-ahead.net/programs/aim-ahead-schare-equity-in-population-health-ai-beyond-ehr-training-program/)
* Reviewer for [AIM-AHEAD & NCATS Data Science Training Program](https://www.aim-ahead.net/programs/aim-ahead-ncats-training-program/)

**Team Member for NIH/NIDMH ScHARe Team 4 *(Science Collaborative for Health disparities and Artificial intelligence bias Reduction)***

* Core Member for data and research analysis for team looking at AI bias reduction

**Vice President for USF-College of Public Health Alumni Society**

* Lead and executive Alumni Society annual events, fundraising, and membership.

**USF Councils and Committees**

* Core member of COPH survey committee
* Student success metric group
* Faculty Advisor for UPHSA (Undergraduate Public Health Student Association)

**HCC Councils and Committees**

* Core Member of Scholarship Committee, Student Success Committee, First Encounter Faculty
* Member for HCC Sustainability Council, Textbook Task force, Honors Committee.

**Lead Student Success Collaboration Group**

* Organized Student Success Collaborative group to share data analytics across USF. July2019-Jan2022

**Member of Persistence Committee**

* Member student persistence committee and data analytics at USF June2015-Jan2022

**Member of Graduate and Professional Student Success Initiative**

* Member Program Quality at USF April 2019-Jan2022

**Member of School Advisory Committee**

* Board Member of SAC at John Long Middle School August 2013-2015

**Coach of FLL Robotics Team**

* Design and executive development of middle school robotic team at John Long Middle School
* Coached the robotics team and organized the team members to ensure STEM learning

**Judge for Research Projects**

* Judge for Florida State Science and Engineering Fair for Environmental Division
* Regular invitee for judging research projects at Middle schools, High Schools, and Undergraduate Research

**Awards**

**Service Awards**, University of South Florida, Tampa, FL 2022

**Outstanding Staff Team Award** *(Nominated)* University of South Florida, Tampa, FL 2021

**Outstanding Staff Team Award** *(Nominated)* University of South Florida, Tampa, FL 2018

**Student Success Excellence Award,** University of South Florida, Tampa, FL 2017

**Excellence Award**, Health Science Research Day, University of South Florida, Tampa, FL, 2013

**Delta Epsilon Iota Academic Honor Society**, University of South Florida, Tampa, FL, 2013

**Service Awards**, University of South Florida, Tampa, FL 2012

**Team Spirit Award,** Florida First Lego League Competition**,** Pasco County , FL, 2012

**First Place** at “Global Challenges for 21st Century”, Research One at USF, 2008

**Service Awards**, University of South Florida, Tampa, FL 2006

**Second Place** **Presentation award** at SUGI 27 conference, Orlando, FL, 2002

**Delta Omega - Tau Chapter**, University of South Florida, Tampa, FL, 1999

**Award of Excellence** at Annual Florida Epidemiology Meeting, Miami, FL, 1999

**Grants and Scholarships**

**Graduate Student Challenge Grant -** to conduct doctoral research at University South Florida 2011

**NNEMS Fellowship -** to pursue research at US Environmental Protection Agency 2009

**Public Health Scholarship -** to pursue PhD in Biostatistics 2005-2006

**Workshops Presented**

**Yellow Belt Credentialing for Microsoft Software’s**, Hillsborough Community College, Tampa, FL 2022

**Workshops for Researchers GRP,** University of South Florida, Tampa, Fl. 2021

**Demystifying Data Analytics, Visualization and Dashboards (5-part series),** USF Lib, Tampa, Fl. 2021

**Memberships of Professional Societies**

American Health Information Management Association(AHIMA)

Florida Health Information Management Association(FHIMA)

Florida Asthma Coalition (FAC)

Tampa Bay Asthma Coalition (TBAC)

**Publications and Presentation**

**Book chapters**

Zgibor J., Venkatachalam H., Wang W., Mehra S., O’Rourke K., Quast T., Bakour, C. (2024). [**Data, Analysis, and Informatics**](https://ajph.aphapublications.org/doi/abs/10.2105/9780875533551ch01). In K. Liller, J. Corvin (Eds). Certified in Public Health: Exam Review Guide, 2nd Edition. Washington, DC: American Public Health Association [**https://doi.org/10.2105/9780875533551ch01**](https://ajph.aphapublications.org/doi/abs/10.2105/9780875533551ch01)

**Publications**

**Mehra, S** (2017). "Estimating The Impact of a Select Criteria Pollutant (PM2.5) on Childhood Asthma in Florida" (2017). *Graduate Theses and Dissertations.* <https://scholarcommons.usf.edu/etd/6730>

Guglin, M., **Mehra, S.,** & Mason, T. J. (2013). Comparison of drugs for pulmonary hypertension reversibility testing: a meta-analysis. *Pulmonary circulation*, *3*(2), 406-413.

Guglin, M., **Mehra, S.,** & Mason, T. (2012). Comparative Effects of the Drugs Used for Pulmonary Hypertension Reversibility Testing: A Meta-Analysis. The Journal of Heart and Lung Transplantation, 31(4), S127.

Guglin, M., **Mehra, S.,** & Mason, T. (2011). Which Drug Is the Best for Pulmonary Hypertension Reversibility Testing?. *Journal of Cardiac Failure*, *17*(8), S15.

Becker, M and **Mehra, S** (2010). Serious Mental Illness in Florida Nursing Homes: A Study of Resident, Facility and Cost Characteristics. *Mental Health Law & Policy Faculty Publications*. 519.

Coris E., **Mehra S.,** et.al. (2009). Gastrointestinal Temperature Trends in Football Linemen During Physical Exertion Under Heat Stress. *Southern medical journal*, *102*(6), 569.

Hyer, K., Thomas, K., **Mehra, S.,** Johnson, C., & Harman, J. (2009). Analyses on Outcomes of Increased Nurse Staffing Policies in Florida Nursing Homes: Staffing Levels, Quality and Costs (2002-2007). *Report submitted to the Florida Agency for Health Care Administration.* University of South Florida

Thomas, K. S., Hyer, K., & **Mehra,** S. (2009). Outcomes of increased nurse staffing policies in Florida nursing homes: staffing levels, quality, and costs. *Gerontologist*,49:20-21.

Christy, A., Poythress, N. G., Boothroyd, R. A., Petrila, J., & **Mehra, S.** (2005). Evaluating the efficiency and community safety goals of the Broward County mental health court. *Behavioral Sciences & the Law*, *23*(2), 227-43.

Chiriboga, D., Brown, L., Dupree, L., Cho, S., Cohen, D., Gum, A., Kearns, W., **Mehra, S.,** & Jang, Y. (2006). Florida Medicaid Alzheimer’s Home and Community-Based Waiver Program: An Evaluation. *Report submitted to the Agency for Health Care Administration.* Louis de la Parte Florida Mental Health Institute, University of South Florida. [Web link](https://d1wqtxts1xzle7.cloudfront.net/49030874/220-73_alzwaiver_chiriboga_06-libre.pdf?1474533353=&response-content-disposition=inline%3B+filename%3DFlorida_Medicaid_Alzheimers_Home_and_Com.pdf&Expires=1731376654&Signature=DCnYQKmCIwjA~gat75lJ5rxL~d7DdBZeHNmZc1X7fqsSGumHE-S58a8cgmvXUOuybtPgosFaCSk5pS35MhKb6IJMHuQg4sL9tH5qRRTt6Pk4NpBFjevo6AMA-SINlgzn5useNgLX7GUSmWb0SlDJIzU8xqmBmittLCoTa4uemniF2N7UxXIQ~E9Ddaafu4PyzsigCrunLR5LIQnVL7SVv9F75J0B6lVPlkzQkLbkFlRSde7n~qmVt62YsH91-zaEd~LIGna~cA5VAx1~35AGRaLhCk649Davm5h8tVPKp2N~5KsfFfitxr4UKkZH5B7B-i0rkL171gFDmYRU6iO9cA__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA)

Chen, H. J., Chen, R., & **Mehra, S.** (2005). Racial and ethnic disparities in health service use and perceived unmet health needs among Florida Medicaid beneficiaries. *Report submitted to the Agency for Health Care Administration.* Louis de la Parte Florida Mental Health Institute, University of South Florida.

Shern D., et.al. Evaluation of Florida’s Medicaid prepaid mental health plans: Year 7 report. *Report submitted to the Agency for Health Care Administration.* Louis de la Parte Florida Mental Health Institute, USF, 2005.

Stiles, P. G., Dailey, K. A., **Mehra, S**. *The Transition Years: What Happens to Adolescents on Medicaid Who Use Mental Health Services?* A Preliminary Report submitted to the Agency for Health Care Administration. Louis de la Parte Florida Mental Health Institute, 2004.

Dailey, K., & Mehra, S. (2001). *The transition from adolescence to adulthood on Medicaid: Use of mental health services*. Report submitted to the Agency for Health Care Administration. Louis de la Parte Florida Mental Health Institute, University of South Florida.

**Presentations** *(recent 10)*

1. **Mehra S.** (2024). *“Understanding Human Trafficking A Public Health Perspective and Prevention in Florida.”* Panel Speaker at *The Intersection of Public Health and Human Trafficking*, by USF-Undergraduate Public Health Student Association, Tampa, FL.
2. **Mehra, S.,** Rusnak, L. ,Bonnema S., & Belteau J. (2024). *Brave New World: Exploring undergraduate USF student preferences for AI in classrooms.* USF AIX 2024 Symposium, Tampa, FL.
3. **Mehra, S.,** Cider, S, Charles R. & Gonzalez, S.M. (2024, October). *Not One Size Fits All - Comparing AI tools for Curriculum Design and Lesson Planning*. USF AIX 2024 Symposium, Tampa, FL.
4. Rusnak, L., Bonnema, S., Belteau, J.& **Mehra, S.**(2024, October 23). *Is AI Write or Wrong: Student perspectives on using AI to complete writing assignments.*Poster will be presented at the EDUCAUSE Annual Conference.  San Antonio, Texas.
5. **Mehra, S** and Cherlinczuk-French, S (2021). Optimizing Enrollment Management and Student Success with Analytics. Analytics for Higher Education, SAS Summit 2021. [Web-link](https://docs.google.com/presentation/d/1QgE3dv9JplLmqAo5HgjRrvhWz-Rtqwb7HgNal23VXcQ/present?slide=id.p1)
6. **Mehra, S** and Kumar S. (2021). Automating Analysis and Data Visualization in SAS® Visual Analytics/Viya®*.* discussion group for the 2021 AIR Forum. ([Virtua](https://drive.google.com/file/d/128zFmUPGEYz7a6uM2vsRLSnxVBq3TjOG/view)l)
7. Khan, M., Farley, J., Zhong, Z., Gonzalez, G., **& Mehra, S.** (2021).Understanding the Effects of Campus Safety on College Student Retention: A Panel Data Analysis. Proceeding of SESUG conference 2021. [Web-Link](https://www.lexjansen.com/sesug/2021/SESUG2021_Paper_81_Final_PDF.pdf)
8. Zheng Z., Khan M., Farley, J. ***Advisor: Mehra S.*** *(*2021). Understanding the Effects of Campus Safety on College Student Retention: A Panel Data Analysis, SAS Global Forum May 2021 (Virtual)
9. Patel P., Khan M., Sharma V., Dalvi S. ***Advisor: Mehra S.*** *(*2019). Using SAS Enterprise Guide, SAS Visual Analytics to Model a Large Institutional Data Set. SAS Global Forum May 2019, Dallas, Texas. [Web-Link](https://support.sas.com/resources/papers/proceedings19/4054-2019.pdf)
10. Bolen, M. J., & **Mehra, S**. (2014). Identifying gaps in FTIC data to support Enrollment Management and student success efforts. Presented at the Southern Association of Institutional Research Conference, Florida

**Technical Skills**

* **Software:** Python, R, R Studio, IDLE, Jupyter notebook, Google Collab, Power BI, Tableau**,** SAS VIYA/ ML/AI, SAS-EG, Azure AI/ML.
* **Technical:** SQL, T-SQL, JSON, SAS-base, PowerShell, Azure Cloud Server (Linux, Windows), Azure Data Studio, MSSQL Server, SSRS
* **Project Management:** Kanban, Agile, Scrum, JIRA, Confluence, Microsoft Projects, and Plans
* **Microsoft Office:** MS365, Excel, Word, Power Point, Access, Project, Share Point, Microsoft Teams
* **Statistical Analysis:** Sentiment analysis, Panel Regression, Predictive data analysis, Forecasting, Time series**,** Risk Analysis, Logistic Regression, Categorical Analysis, Machine Learning/ AI

**Micro Credentials and Certificates**

* AWS Certified Cloud Practitioner
* SAS Educator
* Applying the QM Rubrics
* Acue Inspiring Inquiry and Lifelong Learning in Your Online Course