

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

Years of Attendance	University City, State	Degree, Year Awarded	Field
1981-1984	University of Madras Chennai, India	B.Sc., 1984	Statistics

Graduate

Years of Attendance	University City, State	Degree, Year Awarded	Field
1984-1986	University of Madras Chennai, India	M.Sc., 1986	Statistics
1986-1987	University of Madras Chennai, India	M.Phil., 1987	Statistics
1987-1992	University of Madras Chennai, India	Ph.D., 1992	Statistics

Post-Graduate

Dates	Name and Location of Institution	Type of post-graduate work (Internship, Residency, Fellowship or any other training experience)	Name of Program Director and Discipline
----- 1995-1996	----- University of Western Ontario, London, Canada	----- Post-Doctoral Research training in Statistics	----- Prof. David Bellhouse Department of Statistical and Actuarial Sciences

APPOINTMENTS AND POSITIONS

Academic

Years Position Held -----	Title -----	Department, School, Name and Location of Institution -----
1993-1995	Lecturer	Department of Statistics School of Mathematical Sciences Manonmaniam Sundaranar University Tirunelveli, India
1995-1996	Assistant Professor/ Post-Doctoral Fellow	Department of Statistical and Actuarial Sciences, University of Western Ontario, London, Canada
1996-1998	Senior Lecturer	Department of Statistics School of Mathematical Sciences Manonmaniam Sundaranar University Tirunelveli, India
Aug.-Dec. 2000	Teaching Assistant	Department of Statistics University of Pittsburgh, Pittsburgh
Jan.2001-June 2004	Statistician	Department of Epidemiology, GSPH, University of Pittsburgh, Pittsburgh
July 2004-June 2014	Research Associate	Department of Epidemiology GSPH, University of Pittsburgh
July 2014- April 2020	Research Assistant Prof.	Department of Epidemiology GSPH, University of Pittsburgh.
May 2020 -	Research Associate Prof.	Department of Epidemiology GSPH, University of Pittsburgh

Non-Academic

Years Position Held -----	Title -----	Name and Location of Company/Organization -----
1998-2000	Research Officer	Tamil Nadu State Council for Higher Education, Chennai, India

CERTIFICATION AND LICENSURE

Specialty Certification

Year	Name of Certificate	Certifying Board
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Medical or Other Professional Licensure

Type of License	Licensing Board	State
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

Years Inclusive	Name of Society
1990-Present	Life Member, Indian Society for Probability and Statistics
2017-Present	Infectious Disease Society of America (IDSA)
2019-Present	International Society for Influenza and Other Respiratory Virus Diseases (ISIRV)
2019-Present	International Society of Infectious Diseases
2018-Present	Association of Research in Vision and Ophthalmology (ARVO)
2022-	European Society of Clinical Microbiology and Infectious Diseases.

- Board Member of the “**International Society for Influenza and Other Respiratory Virus Diseases**”, **UK** (*ISIRV*) for three years (2019-2022).
- Member- Governance Working Groups of ISIRV
- *ISIRV's objective and aims:*
To relief of sickness and the preservation and protection of health by promoting the prevention, detection, treatment and control of influenza and other respiratory virus diseases throughout the world.

HONORS

Year of Award	Title of Award Awarding Association
1993	Young Statistician Award International Statistical Institute Netherlands
1994	Young Scientist Fellowship Award Tamil Nadu State Council for Science and Technology, Govt. of Tamil Nadu, India

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
1993-1995 & 1996-1998	1. Sample Survey Techniques 2. Design and Analysis of Experiments 3. Multivariate Analysis 4. Statistical Inference 5. Linear Algebra 6. Programming Languages (FORTRAN 77)	10 hours per week 4 credits Each 30 Enrollment	Yes
1995-1996	1. Sample Surveys	2 hours per week 3 credits 35 Enrollment	Yes

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
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c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Emily Bobbyock	2018	Influenza Vaccine Effectiveness among outpatients: Combined Results from five seasons of US Flu VE Network Study 2011-2016	MPH Thesis
Seitz Staci	2021	Influenza Vaccine Hesitancy	MPH Thesis
Yachana H. Panchal	2022	COVID-19 Vaccination Rates among Patients with Schizophrenia	MPH Master Essay Advisor

d. Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
4/20/2022	Kailey Hughes Kramer, MPH	Not Yet	Estimating annual influenza vaccine effectiveness among immunocompromised adults to decrease severe influenza infections.

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served

Student Population

Type of Exam
(Qualifying/Comprehensive)

The student population, i.e., 1 Ph.D. Biostatistics student, 7 Masters-level M.M.P.H. students, etc.

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
03/01/16-05/04/16	Dr. Zator, Zachary	GI Fellow
January 2016- Dec.2019	Dr. Scott Glaser	Radiation Oncology Fellow
January 2016- Dec. 2019	Dr. Zachary, Horne	Radiation Oncology Fellow

g. Mentoring of Graduate Students in Field Placements

Dates	Name of Student	Degree/Program Description	Field Site
April 2018-	Emily Bobyock	MPH	Pittsburgh, Family Medicine
April 2020	Brendan	MPH	EDC, Family Medicine

h. Other Teaching and Training

Dates

Teaching Activity

Program/Description

Aug.-Dec.,2000

Teaching Assistant

Undergraduate course on Management Statistics

2. Research and Training

a. Grants and Contracts Received

Principal Investigator – Data Co-Coordinating Center (DCC)

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2020-2025	Clarifying the Optimal Application of SLT Therapy (COAST) Trial	NEI	\$1,237,349	25

Co-Investigator – Data Co- Coordinating Center (DCC)

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2021-2022	Development of innovative methods, tools, and strategies to evaluate effectiveness of vaccines in preventing outpatient, laboratory-confirmed illness.	CDC	\$93,000	18
2020-2022	Virtual Histology of the bladder wall for bladder cancer staging	NIH	\$16,402	5
2020-2022	Invasive Aspergillosis complicating severe influenza	NIH	\$8,343	5
2021-2022	Protective effect of maternal influenza immunization and breastmilk against infant influenza	NIH	\$4,131	2
2021-2022	George M. O'Brien Cooperative Research Centers Program	NIDDK	\$8,092	2
2020-2023	SARS-CoV-2 Surveillance in Child Care Centers	MERCK	\$33,277	0
2021-2023	Impact of FluBlok in UPMC Health Plan Databases	Sanofi	\$88,237	20
2020-2023	Pittsburgh Vaccine Clinical Trials treatment and evaluation Unit Registry	NIH	\$85,203	5
2021-2026	New Vaccine Surveillance Network (NVSN)	CDC	\$183,507	25

Principal Investigator- Completed Projects

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2015-2020	R01 EY023620 (subcontract) Glaucoma Management in the African Derived Developing World Using Laser Trabeculoplasty.	NEI	\$29,902	22.5

Co-Investigator – Completed Projects

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2007-2012	R01 HL090339 Prevalence and Pathogenesis of pulmonary disease in a Large Multi-center HIV Cohort.	NIH	\$4,179	10
2009-2011	Epidemiology and significance of BNP in a large HIV-infected cohorts.	Gilead Sciences, Inc.	\$8,291	10
2009-2014	Pathogenesis of Obstruction/ Emphysema and the Microbiome (POEM) in HIV.	NHLBI	\$16,624	25
2015-2016	R21 AR066305 Effect of Atorvastation on Endothelial Function and Raynaud in diffuse Scleroderma.	NIH		10
2011-2016	Influenza surveillance and vaccine effectiveness in a large network	CDC		10
2004-2007	1K01 CE000495-01 Why Some Generations are more Violent than Others?	CDC	\$185,052	15
2019-2022	Epidemiology, Burden and Cost of RSV infection in Adults in Allegheny County, PA	MERCK	\$145,490	10
2020-2021	Platform to Measure SARS-Cov2 against Laboratory-Confirmed COVID19 Associated Hospitalization	CDC	\$96,646	10
2016-2021	Outpatient VE for seasonal flu, pandemic flu and RSV in a large diverse network.	CDC	\$138,721	18
2015-2021	Flu vaccine effectiveness in those hospitalized in a large diverse health system. (HAIVEN)	CDC	\$87,387	10
2016-2021	New Vaccine Surveillance Network (NVSN)	CDC	\$157,842	20

b. Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
March 29, 2004	Use of auxiliary variables in Markov sampling for finite population	ENAR Biometric Society Conference, Pittsburgh
May 18, 2005	Generalized Estimating Equations (GEE): Comparing subject specific model with population averaged models	Center for Injury Research and Control, University of Pittsburgh
March 22, 2005	Challenges of non-ignorable missing data in clinical trials: A pattern-mixture model approach.	ENAR Biometric Society, Austin, Texas
March 12, 2007	Comparison of multivariate strategies for the analysis of skewed psychometric data with many zeros.	ENAR Biometric Society Conference, Atlanta, Georgia
February 27-28, 2015	Propensity Score Matching in outpatients with nonpsychotic major depressive disorder	Presidency College, Chennai, India.
March 2-3, 2015	Workshop on SAS and its applications	SDN Bhat College, Chennai, India
July 30- Aug. 4, 2016	A Model for estimating missing items score on self-reported psychometric scales	Joint Statistical Meeting, Chicago, Illinois
July 30- Aug. 4, 2016	Development of a Stochastic Model using Setting the Clock Back to Zero (SCBZ) for expected time to seroconversion under correlated inter-contact times	Joint Statistical Meeting, Chicago, Illinois
January 3, 2018	Workshop on “Bayesian Analysis and Big Data Analytics”	Bharathiar University, Coimbatore, India
January 4, 2018	Workshop on “Spline Regression, Cluster, CART and Meta-Analysis using R and SAS”	Sowdeswari College, Salem, India
January 5, 2018	Nutritional Epidemiology- Understanding and role in public health research	International conference on Innovative Food and Nutrition Technologies for Public health Care, Salem, India
January 6-7, 2018	Sample Size and power calculations for ordinal outcome model with interaction effect	International conference on theory and applications of Statistics and Information Sciences, Coimbatore, India

b. Invited Lectureships and Major Seminars Related to Your Research (contd.,)

Date	Title of Presentation	Venue
January 8-9, 2018	Estimating missing psychometric items score on self-reported psychometric scales using weighted means model	International Conference on recent trends in stochastic modelling and its applications, Tirunelveli, India
September, 1, 2019	Influenza vaccine effectiveness and factors associated with outcomes in hospitalized adult patients with chronic lung disease	Options X Conference, Singapore
January , 9-10, 2020	Evidence based decision making through Clinical trials: A Statistician's Role	Periyar University, India
January 11, 2020	Importance of Clinical Trials: Statisticians Starring role	MS University, India
April 26-27, 2021	Using Capture-Recapture Methods to Estimate Local Adult Influenza Hospitalization Incidence Rates.	Virtual 2021 Annual conference on Vaccinology research, National Foundations for Infectious Diseases.

c. Other Research and Training Activities

Date	Position	Description of Activity
Nov. 10-11, 2006	Research	Missing data methods at New York
Aug.31, 2009	Research	Meta-Analysis, Washington DC
Sep-Dec., 2009	Research	Linkage analysis Course Horizons, New York
October 16-17, 2015	Research	Propensity Score Analysis, LA
January 20, 2016	Training	Workshop on 'making conflict work for you'
February 17, 2016	Research	SOLVE-2016-Innovative Solutions for Health and Research

c. Other Research and Training Activities (Contd.,)

Date	Position	Description of Activity
February 18, 2016	Training	Workshop on 'Managing for Excellence'
January-May, 2016	Training	Leadership Academy Training
July 30- Aug. 4, 2016	Research	Chaired 'Design and Analysis in Clinical and Hybrid Research', with the 'Mental Health Statistics Section' at the Joint Statistical Meeting held at Chicago
May 19, 2021	Training	Leading Change in Times of Uncertainty

PUBLICATIONS

Refereed Articles

- Authors (same order as publication, Last name, first and middle initials). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.
- Suresh Chandra, K., Sampath,S, **Balasubramani GK** (1992). Markov sampling for finite population. ***Biometrika***, 79(1), 210-213.
- Sidney Zisook, A.John Rush, Ari Albala, Jonathan Alpert, **Balasubramani GK**, Maurizio Fava, Mustafa Husain, Harold Sackheim, Madhukar H. Trivedi, Stephen R.Wisniewski (2004): Factors that differentiate early vs. later onset of Major Depression Disorder. ***Psychiatry Research***, 129(2), 127-140. PMID:15590040.
- Maurizio Fava , Jonathan E.Alpert, Cheryl N.Carmin, Stephen R.Wisniewski, Madhukar H.Trivedi, Melanie M.Biggs, Kathy Shores-Wilson, Don Morgan, Terry Schwartz, **Balasubramani GK**, A.John Rush (2004): Clinical correlates and symptom patterns of anxious depression among patients with major depressive disorder in STAR*D. ***Psychological Medicine***, 34(7), 1299-1308. PMID:15697056.
- Lori L.Davis, A.John Rush, Stephen R.Wisniewski, Kayla Rice, Paolo Cassano, Michele E.Jewell, Melanie M.Biggs, Kathy Shores-Wilson, **Balasubramani GK**, Mustafa M.Husain, Federic M.Quitkin, Patrick J.McGarth (2005): Substance use disorder comorbidity in major depressive disorder: an exploratory analysis of the Sequenced Treatment Alternatives to Relieve Depression cohort. ***Comprehensive Psychiatry***, 46(2), 81-89. PMID: 15723023.
- Bradley N. Gaynes, A. John Rush, Madhukar Trivedi, Stephen R. Wisniewski, **Balasubramani GK**, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Robert K.Schneider, Daniel B.Castro, Robert N. Golden (2005): A direct comparison of presenting characteristics of depressed outpatients from primary vs. specialty care settings: preliminary findings from the STAR*D clinical trial. ***General Hospital Psychiatry***, 27(2), 87-96. PMID: 15763119.
- Balasubramani GK**, Stephen R.Wisniewski, Hongwei Zhang, Heather F. Eng (2005): Development of an efficient SAS® Macro to perform permutation test for two independent samples. ***Computer Methods and Programs in Biomedicine***, 79(2), 179-187. PMID: 15904990.
- Sheila M. Marcus, Elizabeth A.Young, Kevin B. Kerber, Susan Kornstein, Amy H. Farabaugh, Jeff Mitchell, Stephen R.Wisniewski, **Balasubramani GK**, Madhukar H.Trivedi, A.John Rush (2005): Gender Differences at Baseline: Findings from the STAR*D study. ***Journal of Affective Disorder***, 87(2-3), 141-150. PMID: 15982748.
- Jon S.Novick, Jonathan W.Stewart, Stephen R.Wisniewski, Ian A.Cook, Radmila Manev, Andrew A. Nierenberg, Jerrold Rosenbaum, Kathy Shores-Wilson, **Balasubramani GK**, Melanie M.Biggs, Sid Zisook, A.John Rush (2005): Clinical and Demographic features of Atypical Depression in

- outpatients with Major Depressive Disorder: Preliminary findings from STAR*D. *The Journal of Clinical Psychiatry*, 66(8), 1002-1011. PMID: 16086615.
9. Ira M. Lesser, Andrew F. Leuchter, Madhukar H. Trivedi, Lori L. Davis, Stephen R. Wisniewski, **Balasubramani GK**, Timothy Petersen, Diane Stegman, A. John Rush (2005): Characteristics of insured and non-insured outpatients with depression in STAR*D. *Psychiatric Services*, 56(8), 995-1004. PMID: 16088018.
 10. Mustafa M.Husain, A.John Rush, Harold A. Sackeim, Stephen R.Wisniewski, Shawn M. McClintock, Nicoletta Craven, Joel Holiner, Jeff R. Mitchell, **Balasubramani GK** Robert Hauger (2005): Age Related Characteristics of Depression: A Preliminary STAR*D Report. *American Journal of Geriatric Psychiatry*, 13(10), 852-860. PMID: 16223963.
 11. Madhukar H.Trivedi, A.John Rush, Stephen R.Wisniewski, Andrew A. Nierenberg, Diane Warden, Louise Ritz, Grayson Norquist, Robert H. Howland, Barry Lebowitz, Patrick J. McGrath, Kathy Shores-Wilson, Melanie M.Biggs, **Balasubramani GK**, Maurizio Fava, for the STAR*D study team (2006): Evaluation of outcomes with Citalopram for depression using measurement based care in STAR*D: Implications for clinical research and practice. *American Journal of Psychiatry*, 163(1), 28-40. PMID: 16390886.
 12. Andrew A. Nierenberg, Madhukar H.Trivedi, Maurizio Fava, Melanie M.Biggs, Kathy Shores-Wilson, Stephen R.Wisniewski, **Balasubramani GK**, A.John Rush (2007): Family history of mood disorder and characteristics of major depressive disorder: A STAR*D (Sequenced Treatment Alternatives to Relieve Depression) study. *Journal of Psychiatric Research*, 41(3-4), 214-221. PMID: 16690084.
 13. Stephen R.Wisniewski, A.John Rush, **Balasubramani GK**, Madhukar H.Trivedi, Andrew A. Nierenberg for the STAR*D Investigators (2006): Self-Rated Global Measure of the frequency, intensity and burden of side effects. *Journal of Psychiatric Practice*, 12(2), 71-79. PMID: 16728903.
 14. Anthony Fabio, Rolf Loeber, **Balasubramani GK**, Jeffrey Roth, Wenjiang Fu, David Farrington, (2006): Why some generations are more violent than others: Assessment of age, period and cohort effects. *American Journal of Epidemiology*, 164(2), 151-160. PMID: 16775045.
 15. Cynthia A. Claassen, Madhukar H. Trivedi, A.John Rush, Mustafa M. Husain, Sidney Zisook, Elizabeth Young, Andrew Leuchter, Stephen R. Wisniewski, **Balasubramani GK**, Jonathan Alpert (2007): Clinical differences among depressed patients with and without a history of suicide attempts: Findings from the STAR*D trial. *Journal of Affective Disorder*, 97(1-3), 77-84. PMID: 16824617.
 16. Lori L. Davis, Elizabeth Frazier, Mustafa M.Husain, Diane Warden, Madhukar H.Trivedi, Maurizio Fava, Paolo Cassano, Patrick J. McGrath, **Balasubramani GK**, Stephen R.Wisniewski, A.John Rush (2006): Substance use disorder comorbidity in major depressive disorder: A confirmatory analysis of the STAR*D cohort. *The American Journal on Addictions*, 15(4), 278-285. PMID: 16867922.
 17. Maurizio Fava, A.John Rush, Jonathan E.Alpert, Cheryl N.Carmin, **Balasubramani GK**, Stephen R.Wisniewski, Madhukar H.Trivedi, Melanie M.Biggs, Kathy Shores-Wilson (2006): What Clinical and Symptom Features Comorbid Disorders Characterize Outpatients with Anxious Major Depressive Disorder: A Replication and Extension. *The Canadian Journal of Psychiatry*. 51(13), 823-835. PMID: 17195602.
 18. Ian A.Cook, **Balasubramani GK**, Heather Eng, Edward Friedman, Young EA, Jeff Martin, William Nay, Louise Ritz, A. John Rush, Diane Stegman, Madhukar H. Trivedi Stephen R.Wisniewski (2007): Electronic source materials in clinical research: Acceptability and validity of symptom self-rating in depression. *Journal of Psychiatric Research*, 41(9), 737-743. PMID: 17275840.
 19. Sidney Zisook, A.John Rush, Ira Lesser, Stephen R.Wisniewski, Madhukar H.Trivedi, Mustafa M.Husain, **Balasubramani GK**, Jonathan E. Alpert, Maurizio Fava (2007): Pre-adult onset vs. adult onset of major depression disorder: A replication study. *Acta Psychiatrica Scandinavica*, 115(3), 196-205. PMID: 17302619.
 20. Bradley N. Gayens, A.John Rush, Madhukar H.Trivedi, Stephen R.Wisniewski, **Balasubramani GK**, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Linda Nicholas, Maurizio Fava (2007): Major Depressions in Primary care and Psychiatric care settings are minimally different: A cross-sectional analysis. *Annals of Family Medicine*, 5(2), 126-134. PMID: 17389536.

21. Ira M. Lesser, Andrew F. Leuchter, Madhukar H.Trivedi, Lori L.Davis, Stephen R.Wisniewski, **Balasubramani GK**, Maurizio Fava, A.John Rush (2007): Insured and non-insured depressed outpatients in public and private sectors: How do they compare? *Annals of Clinical Psychiatry*, 19(2), 73-82. PMID: 17612846. PMID: 17612846.
22. Diane Warden, Madhukar H. Trivedi, Stephen R. Wisniewski, Lori Davis, Andrew A. Nierenberg, Bradley N. Gaynes, Sidney Zisook, Steven D. Hollon, **Balasubramani GK**, Robert Howland, Maurizio Fava, Jonathan W. Stewart, A. John Rush(2007): Predictors of attrition during initial (Citalopram) treatment for depression: A STAR*D Report. *American Journal of Psychiatry*, 164(8), 1189-1197. PMID: 17671281.
23. Sidney Zisook, Ira Lesser, Jonathan W.Stewart, Stephen R.Wisniewski, **Balasubramani GK**, Maurizio Fava, William S. Gilmer, Timothy R. Dresselhaus, Michael E. Thase Andrew Nierenberg, Madhukar H. Trivedi, A.John Rush (2007): Effect of Age of onset on the course of major depressive disorder. *American Journal of Psychiatry*, 164(10), 1539-1546. PMID: 17898345.
24. David W. Morris, A.John Rush, Shailesh Jain, Maurizio Fava, Stephen R. Wisniewski, **Balasubramani GK**, Ahsan Y.Khan, Madhukar H. Trivedi (2007): Diurnal mood variation in outpatients with major depressive disorder: Implications for DSM-V, from an analysis of the Sequenced Treatment Alternatives to Relieve Depression Study Data. *Journal of Clinical Psychiatry*, 68(9), 1339-1347. PMID: 17915971.
25. Maurizio Fava, A.John Rush, Jonathan E.Alpert, **Balasubramani GK**, Stephen R.Wisniewski, Cheryl N.Carmin, Melanie M. Biggs, Sidney Zisook, Andrew Leuchter, Robert Howland, Diane Warden, Madhukar H.Trivedi (2008): Difference in treatment outcome in outpatients with anxious vs. non-anxious depression: A STAR*D report. *American Journal of Psychiatry*, 165(3), 342-351. PMID: 18172020.
26. Bradley N. Gaynes, A.John Rush, Madhukar H. Trivedi, Stephen R. Wisniewski, **Balasubramani GK**, Patrick McGrath, Michael Thase, Michael Klinkman, Andrew A. Nierenberg, William Yates, Maurizio Fava (2008): Primary vs. specialty care outcomes for depressed outpatients managed with measurement based care: Results from STAR*D. *Journal of General Internal Medicine*, 23(5), 551-560. PMID: 18247097.
27. Sheila M. Marcus, Kevin B. Kerber, A.John Rush, Stephen R.Wisniewski, Andrew A. Nierenberg, **Balasubramani GK**, Louise Ritz, Susan Kornstein, Elizabeth A. Young, Madhukar H. Trivedi (2008): Sex differences in depression symptoms in treatment seeking adults: confirmatory analyses from the Sequenced Treatment Alternatives to Relieve Depression study. *Comprehensive Psychiatry*, 49(3), 238-246. PMID: 18396182.
28. Diane Warden, A.John Rush, Stephen R.Wisniewski, Ira M.Lesser, Susan G.Kronstein, **Balasubramani GK**, Michael E. Thase, Sheldon H. Preskorn, Andrew A.Nierenberg, Elizabeth A.Young, Kathy Shores-Wilson, Madhukar H.Trivedi (2008): What predicts attrition in second step medication treatments for depression? A STAR*D Report. *The International Journal of Neuropsychopharmacology*, 1-15. PMID: 18611293.
29. Elizabeth A. Young, Susan G. Kornstein, Sheila M. Marcus, Anne T. Harvey, Diane Warden, Stephen R. Wisniewski, **Balasubramani GK**, Maurizio Fava, Madhukar H. Trivedi, A. John Rush (2009): Sex differences in response to Citalopram: A STAR*D Report. *Journal of Psychiatric Research*, 43(5), 503-511. PMID: 18752809.
30. Robert H. Howland, A. John Rush, Stephen R. Wisniewski, Madhukar H. Trivedi, Diane Warden, Maurizio Fava, Lori L. Davis, **Balasubramani GK**, Patrick McGrath, Susan R. Berman (2009): Concurrent anxiety and substance use disorders among outpatients with major depression: Clinical features and effect on treatment outcome. *Drug and Alcohol Dependence*, 99, 248-260. PMID: 18986774.
31. Mustafa M. Husain, A. John Rush, Stephen R. Wisniewski, Shawn M. McClintock, Maurizio Fava, Andrew A. Nierenberg, Lori Davis, **Balasubramani GK**, Elizabeth Young, A. Ari Abala, Madhukar H. Trivedi (2009): Family history of depression and Therapeutic outcome: Findings from STAR*D. *Journal of Clinical Psychiatry*, 70(2), 185-195. PMID: 19192454.
32. David W. Morris, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski, **Balasubramani GK**, Ahsan Y. Khan, Shailesh Jain, A. John Rush (2009): Diurnal mood variation in outpatients with major depressive disorder. *Depression and Anxiety*, 26(9):851-863.

33. Jonathan W. Stewart, Patrick J. McGrath, Maurizio Fava, Stephen R. Wisniewski, Sidney Zisook, Ian Cook, Andrew A. Nierenberg, Madhukar H. Trivedi, **Balasubramani GK**, Diane Warden, Ira Lesser, A. John Rush (2010): Do atypical features affect outcome in depressed outpatients treated with Citalopram? *International Journal of Neuropsychopharmacology*, 13(1):15-30.
34. Edward S. Friedman, Stephen R. Wisniewski, William Gilmer, Andrew Nierenberg, A. John Rush, Maurizio Fava, Sidney Zisook, **Balasubramani GK**, Madhukar H. Trivedi (2009): Sociodemographic and clinical and treatment characteristics associated with worsened depression during treatment with Citalopram: Results of the NIMH STAR*D trial. *Depression and Anxiety*, 26(7): 612-621.
35. Diane Warden, A. John Rush, Stephen R. Wisniewski, Ira M. Lesser, Michael E. Thase, **Balasubramani GK**, Kathy Shores-Wilson, Andrew A. Nierenberg, Madhukar H. Trivedi (2009): Income and attrition in the treatment of depression: A STAR*D Report. *Depression and Anxiety*, 26(7): 622-633.
36. Diane Warden, Madhukar H. Trivedi, Stephen R. Wisniewski, Ira M. Lesser, Jeff Mitchell, **Balasubramani GK**, Maurizio Fava, Kathy Shores-Wilson, Diane Stegman, A. John Rush (2009): Identifying Risk for attrition during treatment for depression. *Psychotherapy and Psychosomatics*, 78(6):372-379.
37. Richard C. Shelton, Steve D. Hollon, Stephen R. Wisniewski, Jonathan E. Alpert, **Balasubramani GK**, Edward S. Friedman, A. John Rush, Madhukar H. Trivedi, Sheldon H. Preskorn (2009): Factors associated with concomitant psychotropic drug use in the treatment of major depression: A STAR*D report. *CNS Spectrum*, 14(9): 487-498.
38. Lori L. Davis, Stephen R. Wisniewski, Robert H. Howland, Madhukar H. Trivedi, Mustafa M. Husain, Maurizio Fava, Patrick J. McGrath, **Balasubramani GK**, Diane Warden, A. John Rush (2010): Does Comorbid Substance Use Disorder Impair Recovery from Major Depression with SSRI Treatment? An Analysis of the STAR*D Level One Treatment Outcomes. *Drug and Alcohol Dependence*, 107: 161-170.
39. Charlene Bryan, Thomas Songer, Maria Mori Brooks, Michael E. Thase, Bradley Gaynes, Michael Klinkman, **Balasubramani GK**, A. John Rush, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski (2009). Do depressed patients with diabetes experience more side effects when treated with Citalopram than their counterparts without diabetes? A STAR*D study. *The Primary Care Companion of the Journal of Clinical Psychiatry*, 11(5):186-196.
40. Charlene Bryan, Thomas Songer, Maria Mori Brooks, A. John Rush, Michael E. Thase, Bradley Gaynes, **Balasubramani GK**, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski (2010), The impact of diabetes on depression treatment outcomes. *General Hospital Psychiatry*, 32(1): 33-41.
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Influenza Vaccine Effective Research

1. Richard K. Zimmerman, Balasubramani GK, Helen EA D'Agostino, Lloyd Clarke, Mohamed Yassin, Donald B. Middleton, Fernanda Silveira, Mary Patricia Nowalk. Population-based hospitalization burden estimates for respiratory viruses.

2. Books and Book Chapters

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1. Balasubramani GK, Nowalk MP. 'Epidemiology of SARS-CoV-2 and COVID-19'. 'Textbook of SARS-CoV-2 and COVID-19, 1st edition Elsevier Publication. Preprint. Expected to Publish January 2023.
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3. Published Proceedings

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6. Published Abstracts

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14. Katherin H. Chin, Michael J. Bell, Stephen R. Wisniewski, **Balasubramani GK**, Patrick M. Kochanek, Sue R. Beers, S. Danielle Brown, P. David Adelson for the Pediatric Traumatic Brain Injury Consortium: Hypothermia Investigators. (2013): Effect of administration of Neuromuscular Blocking Agents in Children with Severe Traumatic Brain Injury (TBI) on Acute Complication Rates and Outcomes: A secondary Analysis from a Randomized, Controlled Trial of Therapeutic Hypothermia.
15. Ilinca Metes, Heather Eng, June Feng, **Balasubramani GK**, Stephen R. Wisniewski, Marc C. Levesque. (2013): Identification of Factors with the lack of agreement between Electronic prescription lists and actual disease modifying treatment plans for Rheumatoid Arthritis. ACR/ARHP Annual Meeting, in San Diego, CA, October 25 – 30, 2013.
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18. Christopher Horvat, Michael Bell, Stephen Wisniewski, **Balasubramani GK**, Patrick Kochanek, Sue Beers, S Danielle Brown, P Adelson. Post resuscitation GCS is associated with outcome in Pediatric Severe Traumatic Brain Injury. 2016, **Critical Care Medicine**, Vol.44, Issue 12, page 257
19. Glaser SM, Flickinger JC, **Balasubramani GK**, Beriwal S. Glioblastoma Multiforme (GBM) in the Elderly: Initial Treatment Strategy and Overall Survival. Int J Radiat Oncol Biol Phys. 2016 Oct 1;96(2S):E87-E88. Doi: 10.1016/j.ijrobp.2016.06.812.
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23. Horne ZD, Glaser SM, Vargo J, Ferris RL, **Balasubramani GK**, Clump DA 2nd, Heron DE, Beriwal S. Validation of Proposed Human Papillomavirus Risk-Adapted Staging According to AJCC/UICC TNM Criteria for Positive Oropharyngeal Carcinomas. Int J Radiat Oncol Biol Phys. 2016 Oct 1;96(2S):S82. Doi: 10.1016/j.ijrobp.2016.06.208.
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27. SS Pai, BS Gill, SM Marks, JA Vargo, **Balasubramani GK**, DA Clump, Beriwal S. Application of multi-agent CT among patients with leg-type primary cutaneous B-cell lymphoma. 2016 Journal of Clinical Oncology 34 (15_suppl), 7560-7560
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30. BS Gill, S Beriwal, U Duvvuri, **Balasubramani GK**, DE Heron, DA Clump. External Beam Radiation Therapy (EBRT) for pT4-Differentiated Thyroid Carcinomas: A National Cancer Data Base (NCDB) Analysis. 2016, International Journal of Radiation Oncology• Biology• Physics 94 (4), 952.
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33. Bhavana V. Chapman, Beant S. Gill, Akila N. Viswanathan, **Balasubramani GK**, Paniti Sukumvanich, Sushil Beriwal: Adjuvant radiotherapy for margin-positive vulvar squamous cell carcinoma: Defining the ideal dose-response using the National Cancer Data. **International Journal of Radiation Oncology • Biology • Physics**.
34. ZD Horne, BJ Gebhardt, **Balasubramani G.K.**, Beriwal S. Utilization of post-mastectomy radiotherapy in women with 1-3 positive nodes following neoadjuvant chemotherapy: a multiply-imputed propensity adjusted National Cancer database analysis. **Cancer Research**, February 2015, Vol.77, issue 4 suppl., pp P1-10-01.
35. Vargo JA, **Balasubramani GK**, Beriwal S.: Treatment Selection and survival outcomes in Early-Stage Peripheral T-Cell Lymphomas: Does Anaplastic Lymphoma Kinase Mutation impact the benefit of Consolidate Radiation Therapy. **International Journal of Radiation Oncology*Biological*Physics**, October 2017, Vol.99, Issue 2, Number 25, S141.
36. Vargo JA, Ghareeb ER, **Balasubramani GK**, Beriwal S.: The impact of surgical modality on the benefit of Adjuvant radiation therapy for Merkel Cell Carcinoma. **International Journal of Radiation Oncology*Biological*Physics**, October 2017, Vol.99, Issue 2, E758-E759.
37. Dohopolski Mj, Glaser SM, Vargo JS, **Balasubramani GK**, Beriwal S.: Stereotactic body radiotherapy for locally advanced unresectable pancreatic cancer patterns of care and overall survival. **Journal of Gastrointestinal Oncology**, October 2017 Vol.8, issue 5, 766.
38. Tony Realini, Hazel Shillingford-Ricketts, Darra Burt, **Balasubramani G.K.** Efficacy of Repeat Selective Laser Trabeculoplasty in Afro-Caribbeans with Primary Open-Angle Glaucoma. **Investigative Ophthalmology and Visual Science**, 2018, Vol. 59, issue 9, 3458-3458.
39. Fernanda P. Silverira, Kailey L. Hughes, **Balasubramani GK**, Donald Middleton, Mary Patricia Nowalk, Emily T. Martin, Manjusha Gaglani, H. Keipp Talbot, Jill Ferdinands, Richard Zimmerman. Effective of Influenza vaccine for prevention of influenza associated hospitalizations among immunocompromised adults: 2017-2018. **Open Forum Infectious Diseases**, 2019. Oct 6(Suppl 2): S967.

7. Presentations

1. (As applicable) Authors (same order as publication). Title of Abstract or Presentation. (*Journal Title*. Year and Date. Volume (Issue): pages. OR Title of Meeting/Conference/etc., Location, Date.)
1. **Balasubramani GK**, Wisniewski, SR. "A Simulation Study to Compare the Reproducibility index through Intraclass Correlation using One-Way Random Effects Model and Concordance Correlation Coefficient". Society for Clinical Trials, Arlington, VA, May 12-15, 2002.
2. **Balasubramani GK**, Hongwei Zhang, Wisniewski, SR. "An elegant SAS® Macro to perform permutation test for two independent samples", Society for Clinical Trials, New Orleans, Louisiana, May 23-25, 2004.
3. **Balasubramani GK**, Wisniewski, SR. "Use of auxiliary variables in Markov sampling for finite population". International Biometric Society, ENAR Spring Meeting, Pittsburgh, March 28-31, 2004.
4. **Balasubramani GK**. "Generalized estimating equations: Comparing subject specific model with population averaged models, Center for Injury Research, University of Pittsburgh, May 18, 2005. –Invited Talk.
5. **Balasubramani GK**, Wisniewski, SR. "Challenges of non-ignorable missing data in clinical trials: A pattern-mixture model approach". International Biometric Society, ENAR Spring Meeting, Austin, Texas, March 20-23, 2005.
6. **Balasubramani GK**, Wisniewski, SR. "Comparison of multivariate strategies for the analysis of skewed psychometric data with many zeros". ENAR spring meeting, Atlanta, Georgia, March 11-14, 2007.

7. **Balasubramani GK**, Wisniewski, SR. "Propensity score matching in outpatients with nonpsychotic major depressive disorder", International Conference on New Horizons in Statistical Modeling and Applications, Chennai, India, February 27-28, 2015. – Invited Talk.
8. **Balasubramani GK**, Wisniewski, SR. A Model for estimating missing items score on self-reported psychometric scales - Joint Statistical Meeting, Chicago, Illinois, July 30- August 4, 2016. Accepted for Oral Presentation
9. **Balasubramani GK.**: Nutritional Epidemiology- Understanding and role in public health research. *International conference on Innovative Food and Nutrition Technologies for Public Health Care*, Salem, India, January 4-5, 2018.
10. **Balasubramani GK**, Wisniewski SR.: Sample size and power calculations for ordinal outcome model with interaction effect. *International Conference on theory and applications of statistics and information sciences, Indian Society for Probability and Statistics* (ISPS), Coimbatore, India, January 6-7, 2018.
11. **Balasubramani GK**, Wisniewski SR.: Estimating missing psychometric items score on self-reported psychometric scales using weighted means model. *International Conference on recent trends in stochastic modeling and its applications*, Tirunelveli, India, January 8-9, 2018.
12. **Balasubramani GK**, Hazel Shillingford-Ricketts, Darra Burt, Tony Realini: West Indies Glaucoma Laser Study (WIGLS) 6. Factors Associated with 3-Year Treatment Success Using Selective Laser Trabeculoplasty in Afro-Caribbean Patients with Open-Angle Glaucoma. *ARVO*, Vancouver, Canada, April 28-May 2, 2019.
13. **Balasubramani GK**, Mary Patricia Nowalk, Theresa M. Sax, Sean Saul, Richard K. Zimmerman: Influenza vaccine effectiveness and factors associated with outcomes in hospitalized adult patients with chronic lung disease. The 10th Editions of Options for the control of Influenza, Singapore, August 28 – September 1, 2019.
14. **Balasubramani GK**, Nowalk MP, Clarke LG, Lyons JA, Dauer K, Silveira F, Middleton DB, Yassin M, Zimmerman RK. Using Capture-Recapture Methods to Estimate Local Influenza Hospitalization Incidence Rates. *National Foundations for Infectious Diseases Virtual Conference*, April 26-27, 2021.

8. Non-Print Media

1. (As applicable) Authors (same order as publication). Title of Article. *Title of Media* [Indication of Media]. Publishing Company. Year and Date. Volume (Issue): pages or path.

SERVICE

1. Service to School and University

Years served	Committee, including committee service, committee chairs, administrative appointments and assignments (indication of standing or ad hoc committee)	Position (indication of elected or appointed)
2015-2021	University of Pittsburgh Senate Benefits and Welfare Committee	Member
2018-2021	University Senate Faculty Assembly, Representing School of Public Health	Member
2019	University Dining Advisory Committee	Member
2019	Faculty Senate Search Committee for SVC	Member

Other Service Activities:

Faculty Retreat committee in the Epidemiology Department to organize the retreat function.

2. Service to Field of Scholarship:

a. Editorial Boards, Editorships

Organization	Position	Date
Computer Methods and Programs in Bio-Medicine	Reviewer	2006-Present
Expert Review of Pharmacoeconomics and Outcomes Research	Reviewer	2015-Present
Influenza and Other Respiratory Viruses	Reviewer	2015-Present
Journal of Clinical Oncology	Reviewer	2016-Present
Expert Opinion On Drug Discovery	Reviewer	2019-Present
PLOS One	Academic Editor/ Reviewer	2019-Present
Journal of Clinical medicine	Reviewer	2020-Present

b. Manuscript and Other Document/Publication Review

Date Reviewed	Journal name	Title of the Paper Reviewed
07.01.2015	<i>Expert Review of Pharmacoeconomics and Outcomes Research</i>	Prevalence, Awareness, and Burden of Major Depressive Disorder in Urban China
07.13.2015	<i>Influenza and Other Respiratory Viruses</i>	Pacific Rim influenza: Virus Surveillance Using RT-PCR Mass Spectrometry
02.08.2016	<i>Journal of Infection and Public health</i>	Bacterial Resistance and Immunological Profiles in HIV Infected and non-Infected Patients at Mbouda AD LUCEM Hospital in Cameroon
03.02.2016	<i>Journal of Infection and Public health</i>	Revised submission of the above paper

02.15.2016	<i>Pediatrics</i>	Major depressive Disorder in Canadian School-Aged Children: Rare Disorder or rarely detected?
03.09.2016	<i>Journal of Infection and Public health</i>	Service providers' perspectives and experience on sexual and reproductive health needs of HIV positive young adults in Udupi district, Karnataka: A Qualitative Study
07.05.2016	<i>Advances in Medicine</i>	A study of blood biomarkers and its predictive value in treatment resistant depression
07.08.2016	<i>Children and Youth Services</i>	Effectiveness of a cross-sectorial differential model of services in reducing emotional and behavioral difficulties in school-aged children at risk of familial abuse and neglect Children and Youth Services Review
09.09.2016	<i>Expert Review of Pharmacoeconomics & Outcomes Research</i>	Conducting Patient Interviews Within a Clinical Trial Setting
11.08.2017	<i>Therapeutics and Clinical Risk Management</i>	Clinical and chest X-ray studies on influenza B Virus-associated neonatal pneumonia
12.14.2017	<i>Journal of clinical Oncology</i>	Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in patients with Metastatic Esophagogastric Cancer
02.28.2018	<i>Journal of Clinical Oncology</i>	Treatment related adverse events in African American Cancer patients with sickle cell trait Inherited Hemoglobinopathies in a SEER-Medicare claims cohort
03.14.2018	<i>Journal of clinical Oncology</i>	Second, Revised review of the "Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in patients with Metastatic Esophagogastric Cancer
04.24.2018	<i>Journal of Clinical Oncology</i>	Development and external validation of a CT Radiomic nomogram for preoperative N staging in patients with advanced gastric cancer: a five-center analysis of tumor habitats
05.09.2018	<i>Journal of clinical Oncology</i>	Third, Revised review of the "Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in patients with Metastatic Esophagogastric Cancer
06.18.2019	<i>Journal of clinical Oncology</i>	Effects of Exercise Therapy Dosing Schedule on Impaired Cardiovascular Function in Patients with Operable Breast Cancer: A Randomized Clinical Trial.
03.20.2020	<i>British Medical Journal</i>	Enhanced screening for early treatment targets in mild traumatic brain injury: a pilot cluster randomized trial
05.19.2020	<i>Open Forum Infectious Diseases</i>	Vaccine Effectiveness against influenza associate lower respiratory tract infections in hospitalized adults, Louisville, Kentucky, 2010-2013.
08.11.2020	<i>Journal of Clinical Oncology</i>	B7H3-directed Intraperitoneal Radio immunotherapy with Radio iodinated Omburtamab for Desmoplastic Small Round

		Cell Tumor and other Peritoneal Tumors: Results of a Phase I Study.
08.27.2020	<i>Expert Opinion On Drug Discovery</i>	Are long-term influenza vaccines possible and how do we discover them?
09.29.2020	<i>Computer Methods and Programs in Bio-Medicine</i>	The Prediction of Influenza-Like Illness and Respiratory Disease Using LSTM and ARIMA
12.23.2020	<i>Journal of clinical Medicine</i>	Glaucoma management: An updated Review
01.04.2021	<i>Journal of Clinical Oncology</i>	Assessment of long-term survival benefits in immuno-oncology vs non-immuno-oncology agents approved by the FDA: a pooled-analysis of randomized controlled trials.
01.26.2021	<i>PLOS One</i>	Effectiveness of influenza vaccination in preventing severe laboratory-confirmed influenza-related illness in patients admitted to a tertiary hospital in Catalonia (Spain) during the 2018-2019 epidemic season.
07.27.2021	<i>PLOS One</i>	SARS due to COVID-19: predictors of death and profile of patients in the state of Rio de Janeiro, 2020.

c. Study Sections, Review Panels, and Advisory Boards

NIH Study Section:		
March 11-12, 2021	NIH Study Section Member	NIH-review panel "Infectious Diseases Clinical Research and Field Studies for SARS-CoV-2 Applications" as part of the ECR program. NIH Clinical Research and Field Studies (CRFS) Study Section.
DoD Review Panel:		
Feb. 15-16, 2022	Review Panel Member	Served as Member for the 'Traumatic Brain Injury and Psychological Health Research Program' as part of the Broad Agency Announcement for Extramural Research (Program Specific) for the Department of Defense
October 12-13, 2021	Review Panel Member	Emerging Viral Diseases and especially vaccine strategies.

Date	Position	Organization and Nature of Activity
Academic Editor:		
July 2021-	Academic Editor	PLOS One Journal. Review the submitted articles weekly and find and allot the manuscript to the reviewers from the panel.
Advisory Boards:		
2016-Present	DSMB Member	Study of Tranexamic Acid during Air Medical Prehospital transport (STAAMP) Trial Phase 3 Multi-center, Prospective, Randomized, Double Blinded, Controlled Interventional Trial.
2018-Present	DSMB Member	NIH/NIADS-A Phase I Study to Evaluate the Safety, Tolerability, and Immunogenicity of a Therapeutic HIV Vaccine Composed of Autologous Dendritic Cells Loaded with Autologous Inactivated Whole Virus or Conserved Peptides in ART-treated, HIV-infected Adults
2019-Present	DSMB Member	NIH/NICHD Study on 'The NICU Antibiotics and Outcomes Trial (NANO)'.
2019-2022	DSMB Member	Phase 2 NIH-PMED -An Open Label Study of Oral Nitrate in Adults with Pulmonary Hypertension with Heart Failure and Preserved Ejection Fraction (PH-HFpEF)
2019-2022	DSMB Member	NIH-PMED -An Open Label Study of Oral Nitrate in Adults with Pulmonary Hypertension with Heart Failure and Preserved Ejection Fraction (PH-HFpEF) and Normal Healthy Adults
2019-2022	DSMB Member	NIH- A Randomized trial of chlorhexidine mouthwash and oral nitrate in adults with pulmonary hypertension (GARGLE).

b. Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Position	Organization
2020	Elected Board Member	International Society for Influenza and Other Respiratory Virus Diseases (ISIRV), London, UK
July 30-Aug.4, 2016	Session Chair on Mental Health Statistics	American Statistical Association
April 7, 2017	GSPH Dean's Day Judge	University of Pittsburgh
May 16, 2017	Judge for the Annual UPPDA Postdoctoral Data and Dine Symposium	University of Pittsburgh

3. Service for Practice and Policy-Making, including Consultant ships

a. Governmental Organizations

Date	Position	Type of Service and/or Agency
1998-2000	Research Officer	Tamil Nadu State Council for Higher Education, Chennai, India - Identified training needs and conducted training activities for College and University teachers - Assisted in the implementation and co-ordination of Higher Educational Programs viz., organizing seminars and symposia etc.

b. Non-Governmental and Community-Based Organizations

Date	Position	Type of Service and/or Organization
2010-2011	Corporate Body Member	SV Temple, Monroeville.
2011-2012	Executive Committee Member	SV Temple, Monroeville.
2013-	Member, Board of Directors	SV Temple, Monroeville
2014-	Treasurer	SV Temple, Monroeville
Jan.2012	Volunteer	Habitat for Humanity

4. Non-Professional Service

Year(s)	Position and Organization	Type of Service
2013-2014	Volunteer, Boy Scouts Troop 36	Helping out the boy scouts during the weekly meeting and assisting the scout masters for various activities.
2013-2014	Volunteer, Pittsburgh Cricket Association	Coaching the Youth Cricket ball game.

Other Service Activities:

- a. Organized a 5K run in September 2015 under the name Pittsburgh Indian Community (PIC) and raised \$43,000. The raised money was donated to two charities in Pittsburgh. (i) Homeless Children's Education Fund and (ii) Primary Care Health Services, Inc.
- b. Associated with Sahana a live music troupe and conducted a fund raising event on December 12, 2015 for Chennai (India) flood victims. Total raised \$27,000.
- c. Associated with Sahana a live music troupe and conducted a fund raising event on May 20, 2017 for Association for India Development. Total raised \$20,000.

5. Clinical and Related Activities (OPTIONAL - if applicable)**A. Outpatient: Patient Care**

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, precepting, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

B. Inpatient: Patient Care

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, precepting, call, surgery, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

C. Other Patient Care

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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