Last updated: May 5, 2024

CURRICULUM VITAE

Rameela Raman, PhD

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Google Scholar: https://scholar.google.com/citations?user=8Dx124cAAAAJ&hl=en

NCBI Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/rameela.raman.1/bibliography/public/

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EDUCATION

2008 MA, Biostatistics: State University of New York at Buffalo, New York
2011 PhD, Biostatistics: State University of New York at Buffalo, New York

ACADEMIC APPOINTMENTS

11/11 – 01/13 Instructor, Department of Biostatistics, Vanderbilt University

02/13 – 11/19 Assistant Professor, Department of Biostatistics, Vanderbilt University **12/19 – Present** Associate Professor, Department of Biostatistics, Vanderbilt University

OTHER EMPLOYMENT

2006 - 2007	Graduate Research Assistant, Department of Biostatistics, SUNY at UB
2007 - 2011	Pre-Doctoral Research Affiliate, Roswell Park Cancer Institute, Buffalo
2017 - 2019	Statistical Consultant, Chapin Hall at the University of Chicago

PROFESSIONAL ORGANIZATIONS

2005 - American Statistical Association (ASA)

Section member: Record Linkage Interest Group, Government Statistics Section, Health

Policy Statistics Section, Section on Statistics in Epidemiology

2017 - Caucus for Women in Statistics (CWS)
2021 - Society for Clinical Trials (SCT)
2021 - 2022 American Delirium Society

2022 – 2024 Council of Chapters representative - Middle Tennessee Chapter of the American Statistical

Association

PROFESSIONAL ACTIVITIES

Intramural

2014 Member, Linda Stewart Applied Analysis Report Award, Department of Biostatistics,

Vanderbilt University

2016 Clinical Research Judge, Poster Presentations, 34th Annual Research Forum, Vanderbilt

University Medical Center

2017 - 2019 Interviewer, Vanderbilt Medical School Admissions

2018 - Member, Biostatistics Graduate Program Admissions Committee

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2018 - 2020	Voting committee member, Institutional Review Board for the Protection of Human Subjects, Vanderbilt University	
2019	Reviewer, Data Science Institute-Summer Research Program (DSI-SRP)	
2019 -	Elected Member, Vanderbilt Academy for Excellence in Education	
2019 - 2021	Member, Faculty search committee, Department of Biostatistics, Vanderbilt University	
2022-	Interviewer, Vanderbilt Medical School Admissions	
2023	Reviewer, Vanderbilt Undergraduate Summer Research Program (VUSRP)	
2023	Chair, Patrick Arbogast Collaborative Publication Award, Department of Biostatistics,	
	Vanderbilt University	
2024	Chair, Department of Biostatistics Retreat Committee	

Extramural

DSMB

2019 - 2022 2019 - 2024

Study Section/Scient	entific Review Committees for national and international funding agencies	
Mar 2018	NIH/NCCIH grant review panel: ZAT1 AJT (06) Exploratory Clinical Trials of Mind and	
	Body Interventions (R34 and U01)	
Feb 2019	NIH/NCCIH grant review panel: ZAT1 SM (46) Special Emphasis Panel Mechanistic	
	Studies to Optimize Mind and Body Interventions (R33 and R33/R61)	
Feb 2019	NIH/NCCIH grant review panel: ZAT1 PJ (04) Exploratory Clinical Trials of Mind and	
	Body Interventions (R34 and U01)	
July 2019	NIH/NCCIH grant review panel: ZAT1 PJ (06) Exploratory Clinical Trials of Mind and	
	Body Interventions (R34 and U01)	
July 2019	NIH/NCCIH grant review panel: ZAT1 SM (50) Special Emphasis Panel Early Phase	
	Clinical Trials of Natural Products (R33 and R33/R61) and Natural Products Phase II	
	Clinical Trial Cooperative Agreement (U01)	
Nov 2019	NIH/NCCIH grant review panel: ZAT1 SM (53) Special Emphasis Panel Exploratory	
D 4010	Mechanistic studies to Optimize Mind and Body Interventions (R33 and R61/R33)	
Dec 2019	NIH/NCCIH grant review panel: ZAT1 SM (51) Special Emphasis Panel Exploratory	
D 2010	Clinical Trials of Mind and Body Intervention (R34)	
Dec 2019	NIH/NCCIH grant review panel: ZAT1 PJ (07) Exploratory Clinical Trials of Mind and	
Tom 2020	Body Interventions (R34 and U01)	
Jan 2020 Dec 2020	Review panel: National Science Foundation (NSF)	
Jan 2021	Grant Proposal Reviewer: National Science Centre, Poland	
Feb 2021	Review panel: National Science Foundation (NSF) NIH Review panel: Kidney, Nutrition, Obesity and Diabetes Study Section (KNOD)	
ren 2021	2021/05 study section (KNOD)	
Feb 2021	Grant Proposal Reviewer: National Research Council, Swiss National Science Foundation	
	(SNSF), Switzerland	
April 2021	Merit Review Panel: PCORI, Cycle 3 2020: Improving Methods for Conducting Patient-	
_	Centered Outcomes Research.	
Nov 2021	NIH Review panel: NIDCR Special Emphasis Panel ZDE1 YM (10)	
May 2022	CDC Review panel: ZCE1 MLW (08) R Special Emphasis Panel, Using Data Linkage to	
	Understand Suicide Attempts, Self-Harm and Unintentional Drowning	
July 2022	Merit Review Panel: PCORI, Cycle 1 2022: Prevention, Early Identification, and	
	Treatments of Delirium in Older Adults.	
Jan 2023	Grant Proposal Reviewer: National Research Council, Swiss National Science Foundation	
	(SNSF), Switzerland	
Mar 2023	Grant Proposal Reviewer: Israel Science Foundation (ISF)	
May 2023	CDC Review panel: ZCE1 AW (4B) R - PANEL B: CE24-001 - Grants for Injury Control	
	Research Centers (ICRC)	

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Data and Safety Monitoring Board Member, FREEDOM Study, NIA. Data and Safety Monitoring Board Member, REHAB-PH Study, NHLBI.

Journals Reviewed for:

American Journal of Respiratory and Critical Care Medicine, American Journal of Kidney Diseases, American Journal of Epidemiology, Annals of the American Thoracic Society, BMC Medicine, Intensive Care Medicine, Journal of Applied Statistics, Journal of Hospital Medicine, Journal of General Internal Medicine, Journal of Statistics Education, Pharmaceutical Statistics, Statistics and Its Interface, Statistics in Medicine, The Lancet, The Lancet Respiratory Medicine, The Lancet Digital Health, The Journal of Urology.

Other professional activities:

2009-2010	Judge, American Statistical Association K-12 Statistics Project Competition.	
2010-	Pro Bono statistical consultant, Statistics Without Borders (SWB)	
2012	Session Chair, useR! 2012	
2016-2018	Judge, American Statistical Association K-12 Statistics Project Competition	
2017-2021	Selected Participant, ASA Statistical Education Mentoring Program	
2021	Mentor, ASA Statistical Education Mentoring Program	
2021	Moderator, American Delirium Society Statistical Consultation Session	
2022	Methods Consultant – Network for Investigation of Delirium: Unifying Scientists Pilot Grants	
2023	Methods Consultant – Network for Investigation of Delirium: Unifying Scientists Pilot Grants	
2024	Methods Consultant - Network for Investigation of Delirium: Unifying Scientists Pilot	

Awards and Honors:

Grants

2009	ENAR Travel Award to attend the Fostering Diversity in Biostatistics Workshop
2009	Richard N. Schmidt Scholarship Travel Award to attend ENAR
2010	ASA/Boyd Harshbarger Travel Award to attend the Southern Regional Council on Statistics (SRCOS) Summer Research Conference
2015	ENAR Travel Award to attend the Junior Biostatisticians in Health Research Workshop
2015	ENAR Travel Award to attend the Fostering Diversity in Biostatistics Workshop
2016	Patrick G. Arbogast Award for best 2015 collaborative publication, Department of Biostatistics, Vanderbilt University School of Medicine
2018	Selected as a participant and received research funds to enhance teaching, Course Design Institute at the Vanderbilt Center for Teaching (\$500)
2018	Oak Ridge Associated Universities Events Sponsorship Program award to facilitate the 'Distinguished Women in Statistics' seminar series (\$4,000)
2019	Elected into Membership in the Vanderbilt Academy for Excellence in Education
2019	Patrick G. Arbogast Award for best 2018 collaborative publication, Department of Biostatistics, Vanderbilt University School of Medicine
2019	Outstanding Faculty Mentor Award, Vanderbilt Department of Biostatistics (awarded by the Biostatistics graduate student body)
2021	Nominated for the Vanderbilt Women's Center Mentoring Award by graduate students
2021	Inducted to the Delta Omega, National Honor Society in Public Health (Gamma Lambda Chapter)
2021	Southeastern Conference (SEC) Visiting Faculty Travel Grant (\$750)
2021	Vanderbilt Center for Health Services Research Grant (\$10,000)

TEACHING ACTIVITIES

Courses

Fall 2005 Teaching Assistant: Department of Biostatistics, SUNY at Buffalo, STA 119 - Introduction to Statistics.

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Spring 2006	Teaching Assistant: Department of Biostatistics, SUNY at Buffalo, STA 119 - Introduction
	to Statistics

- **Summer 2009** Course Instructor: Department of Biostatistics, SUNY at Buffalo, STA 119 Introduction to Statistics
- **Spring 2013, 2014** Course Instructor: Department of Biomedical Engineering, Vanderbilt University School of Engineering, *BME 260 Analysis of biomedical data*
- **Fall 2015-2018** Course Co-Instructor: School of Nursing, Vanderbilt University, NURS 8014 [Formerly NURS 414] Statistics in Health Sciences
- **Spring 2015-2023** Course Co-Instructor: School of Nursing, Vanderbilt University, *NURS 8014 [Formerly NURS 414] Statistics in Health Sciences*
- **Fall 2023** Course Instructor: Vanderbilt University School of Medicine, *IDIS 5220: PLAN MD Program*.
- Spring 2024 Course Instructor: Department of Biostatistics, Vanderbilt University School of Medicine, BIOS 7352. Statistical Collaboration in Health Sciences II.

Research Supervision: Academic Advising and Mentoring of Staff/Graduate Students

- 11/11 01/13 Wei Wang, PhD Biostat II, Department of Biostatistics, Vanderbilt University School of Medicine
- 09/13 12/18 David Schlueter PhD, Department of Biostatistics, Vanderbilt University School of Medicine
- 10/13 01/19 Jennifer L. Thompson, MPH Biostat IV, Department of Biostatistics, Vanderbilt University School of Medicine
- 01/14 06/15 Xulei Liu, MA Biostat III, Department of Biostatistics, Vanderbilt University School of Medicine
- 09/14 09/21 Ryan Jarrett PhD Student, Department of Biostatistics, Vanderbilt University School of Medicine
- **08/19 09/21** Wencong Chen, PhD Biostat III, Department of Biostatistics, Vanderbilt University School of Medicine
- 02/19 Onur M Orun, MS Biostat III, Department of Biostatistics, Vanderbilt University School of Medicine
- **08/19** Julia Thome PhD Student, Department of Biostatistics, Vanderbilt University School of Medicine
- **08/19** Jamie Joseph PhD Student, Department of Biostatistics, Vanderbilt University School of Medicine
- 09/21 Caroline Birdrow, MS Biostat II, Department of Biostatistics, Vanderbilt University School of Medicine
- **08/21 12/22** Joshua Slone PhD Student, Department of Biostatistics, Vanderbilt University School of Medicine
- **08/22** Megan Hall MS Student, Department of Biostatistics, Vanderbilt University School of Medicine
- 07/23 Alexis Fleming PhD Student, Department of Biostatistics, Vanderbilt University School of Medicine

Oral Examinations/Thesis Reader/Dissertation Committees:

Jo Ellen Wilson (Epidemiology PhD, 2023) David Schlueter (Biostatistics PhD, 2015) Uchechukwu Sampson (Biostatistics MS, 2014) Julia Thome (Biostatistics PhD, expected 2024)

RESEARCH PROGRAM

Primary Academic Collaborations:

2011- Tennessee Department of Children's Services

2013- CIBS Centre/ICU Delirium and Cognitive Impairment Group at Vanderbilt

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2013- Emerging Infections Program – Collaboration of the Tennessee Department of Health, the

Vanderbilt University School of Medicine, Department of Health Policy and the Centers

for Disease Control and Prevention

2015-2023 Vanderbilt University School of Nursing

*Title: Emerging Infections Program (EIP) Core

Major Goals: The major goals are comprehensive enhanced population-based public health surveillance for laboratory-confirmed invasive bacterial infections, influenza, encephalitis, human papillomavirus and precancerous lesions. (Influenza, COVID & ABC)

*Status of Support: ACTIVE

Project Number: VUMC07131 / (34349-18223)(Edison ID 80552)

Name of PD/PI: William Schaffner

*Source of Support: State of Tennessee/CDC *Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 01/01/2012 - 12/31/2024

* Total Award Amount (including Indirect Costs): \$38,296,761

Role: Co-Investigator

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2024	2.40 calendar months

*Title: Cognitive and Physical Exercise to Improve Outcomes after Surgery in the Elderly

Major Goals: The major goals of the COPE-iOS study will examine whether a comprehensive program of computerized cognitive training, guided progressive physical exercise, and health education performed throughout the entire perioperative period will improve long-term cognitive and disability outcomes in elderly surgical patients at high risk for decline.

*Status of Support: ACTIVE

Project Number: 5R01AG061161-04 Name of PD/PI: Christopher G. Hughes

*Source of Support: NIA

*Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 03/01/2020 - 02/28/2025

* Total Award Amount (including Indirect Costs): \$4,136,127

Role: Co-Investigator

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2025	0.24 calendar months

*Title: BRAIN-ICU-2 Study: Bringing to Light the Risk Factors and Incidence of Neuropsychological Dysfunction (Dementia) in ICU Survivors, 2nd Study

Major Goals: The major goals are to characterize which patients show cognitive reserve, recovery, and ADRD progression, and in so doing, address knowledge gaps between delirium and ADRD and facilitate future interventions. Our overarching hypothesis: Delirium results in neurodegenerative and neuropathological changes that can be measured with imaging biomarkers, plasma/cerebrospinal fluid(CSF) biomarkers, and autopsy measures of neuropathology, all of which ultimately drive post-ICU ADRD phenotypes, which we will characterize in BRAIN-ICU-2.

*Status of Support: ACTIVE

Project Number: 5R01AG058639-05 Name of PD/PI: Eugene W. Ely

*Source of Support: NIA

*Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/15/2019 - 01/31/2025

* Total Award Amount (including Indirect Costs): \$18,028,777

Role: Co-Investigator

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* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2025	0.24 calendar months

*Title: Behavioral Health Sciences Center of Excellence

Major Goals: The major goals of Centers of Excellence are tertiary care academic medical centers, provider agencies, and partners possessing expertise in children's physical and behavioral health. They are focused on improving comprehensive well-being of children in or at risk of state custody. Centers of Excellence assist in providing science-based guidance to improve children's health, behavioral outcomes, and improve systems serving children by providing clinical consultations, evaluations, and limited direct services to children with complex needs.

*Status of Support: ACTIVE

Project Number: VUMC79162 (35910-02278)

Name of PD/PI: Jon Ebert

*Source of Support: CMMS-BCBS of TN *Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 11/01/2019 - 06/30/2024

* Total Award Amount (including Indirect Costs): \$6,257,274

Role: Biostatistician

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2024	0.60 calendar months

*Title: Center of Excellence Quality and Safety Projects

Major Goals: The major goals of Vanderbilt University's Departments of Psychiatry and Pediatrics have collaborated to create a program to serve children who are at-risk for or in state custody. The State of Tennessee has designated our program a Center of Excellence for Children in State Custody and our services extend to 39 Middle Tennessee counties. Our consultation, diagnostic and care plan development services are available to the Department of Children's Services, Department of Health, community providers and Best Practice Network providers involved in the care of children in or at-risk for custody.

*Status of Support: ACTIVE

Project Number: VUMC32655 / 35910-02279

Name of PD/PI: Kathy Gracey

*Source of Support: Department of Justice *Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 05/01/2006 - 06/30/2024

* Total Award Amount (including Indirect Costs): \$30,429,698

Role: Biostatistician

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2024	3.60 calendar months

*Title: Remotely Monitored, Mobile health-supported High Intensity Interval Training after COVID-19 Critical Illness (REMM-HIIT COVID-19)

Major Goals: The major goals are the proposed randomized REMMHIIT-COVID-19 trial [REmotely Monitored, Mobile health-supported High Intensity Interval Training after COVID-19 Critical Illness] will assess a successfully piloted novel home rehabilitation program to improve recovery of cardiorespiratory fitness (CRF) and physical function in COVID-19 ICU survivors who frequently experience profound post-hospital impairments in physical function, poor quality of life, muscle wasting/weakness, and new cognitive deficits collectively known as known as post-intensive care syndrome (PICS). The unique strengths of the application include a home-based innovative, tailored, structured, and progressive multidomain rehabilitation strategy, scientifically rigorous clinical trial design, an inter-disciplinary research team, access to a large COVID-19 ICU patient pool, innovative mobile health device platform, statistical power, patient safety, and inclusion of CRF performance-based as well as patient-reported post-hospital outcomes.

*Status of Support: ACTIVE

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Project Number: VUMC101098 / R01HD107103

Name of PD/PI: Paul Wischmeyer (Duke)

*Source of Support: Duke/NICHD

*Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/17/2021 - 08/31/2026

* Total Award Amount (including Indirect Costs): \$841,846 (subcontract)

Role: Biostatistician

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2024	1.80 calendar months
2025	0.60 calendar months
2026	0.60 calendar months

VA Effort

*Title: Return-III VA Study/Wes Ely Merit Grant (VA IPA)

Major Goals: Dr. Raman will provide Biostatistical expertise for the RETURN-III VA study.

*Status of Support: ACTIVE Project Number: VUMC95431 Name of PD/PI: Eugene (Wes) Ely

*Source of Support: VA

*Primary Place of Performance: VUMC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 07/01/2021 - 04/30/2025

* Total Award Amount (including Indirect Costs): \$67,152

Role: Co-Investigator

PUBLICATIONS AND PRESENTATIONS—Also published under the last name

'Chandrasekhar'

Peer-Reviewed Publications

- 1. Chirumamilla AP, Wilson MF, Wilding GE, **Chandrasekhar R**, Ashraf H. Outcome of renal insufficiency patients undergoing coronary artery bypass graft surgery. Cardiology. 2008;111(1):23-9.
- 2. **R Chandrasekhar,** JC Miecznikowski, DP Gaile, V Govindaraju, FV Bright, KF Sellers. Xerogel Package. (2009). Chemometrics and Intelligent Laboratory Systems, 96(1): 70-74.
- 3. Khoury T, Arshad A, Bogner P, Ramnath N, Zhang S, **Chandrasekhar R**, Wilding G, Alrawi S, Tan D. Apoptosis-related (survivin, Bcl-2), tumor suppressor gene (p53), proliferation (Ki-67), and non-receptor tyrosine kinase (Src) markers expression and correlation with clinicopathologic variables in 60 thymic neoplasms. Chest. 2009 Jul;136(1):220-228.
- 4. Guru KA, Hussain A, **Chandrasekhar R**, Piacente P, Hussain A, Chandrasekhar R, Piacente P, Bienko M, Glasgow M, Underwood W, Wilding G, Mohler JL, Menon M, Peabody JO. Current status of robot-assisted surgery in urology: a multi-national survey of 297 urologic surgeons. Can J Urol. 2009 Aug;16(4):4736-41
- 5. Singh SS, Mehedint DC, Ford OH 3rd, Jeyaraj DA, Pop EA, Maygarden SJ, Ivanova A, Chandrasekhar R, Wilding GE, Mohler JL. Comparison of ACINUS, caspase-3, and TUNEL as apoptotic markers in determination of tumor growth rates of clinically localized prostate cancer using image analysis. Prostate. 2009 Nov 1;69(15):1603-1610.
- 6. Yuh BE, Ciccone J, **Chandrasekhar R**, Butt ZM, Wilding GE, Kim HL, Mohler JL, Guru KA. Impact of previous abdominal surgery on robot-assisted radical cystectomy. JSLS. 2009 Jul-Sep;13(3):398-405.
- 7. Khoury T, Sait S, Hwang H, **Chandrasekhar R**, Wilding G, Tan D, Kulkarni S. Delay to formalin fixation effect on breast biomarkers. Mod Pathol. 2009 Nov;22(11):1457-67.
- 8. Al-Agha OM, Liu W, **Chandrasekhar R**, Wilding G, Tan D, Alrawi S, Khoury T. CD138 (Syndecan-1) in thymic tumors: correlation with various World Health Organization types and clinical outcome. Int J Clin Exp Pathol. 2010 Feb 10;3(3):280-7.
- 9. May KS, Khushalani NI, **Chandrasekhar R**, Wilding GE, Iyer RV, Ma WW, Flaherty L, Russo RC, Fakih M, Kuvshinoff BW, Gibbs JF, Javle MM, Yang GY. Analysis of clinical and dosimetric factors

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- associated with change in renal function in patients with gastrointestinal malignancies after chemoradiation to the abdomen. Int J Radiat Oncol Biol Phys. 2010 Mar 15;76(4):1193-8.
- 10. May KS, Yang GY, Khushalani NI, **Chandrasekhar R**, Wilding GE, Flaherty L, Malhotra HK, Russo RC, Warner JC, Yap JC, Iyer RV, Nwogu CE, Yendamuri SS, Gibbs JF, Nava HR, Lamonica D, Thomas CR Jr. Association of Technetium(99m) MAG-3 renal scintigraphy with change in creatinine clearance following chemoradiation to the abdomen in patients with gastrointestinal malignancies. J Gastrointest Oncol. 2010 Sep;1(1):7-15.
- 11. Seixas-Mikelus SA, Adal A, Kesavadas T, Baheti A, Srimathveeravalli G, Hussain A, **Chandrasekhar R**, Wilding GE, Guru KA. Can image-based virtual reality help teach anatomy?. J Endourol. 2010 Apr;24(4):629-34.
- 12. Hayn MH, Hussain A, Mansour AM, Andrews PE, Carpentier P, Castle E, Dasgupta P, Rimington P, Thomas R, Khan S, Kibel A, Kim H, Manoharan M, Menon M, Mottrie A, Ornstein D, Peabody J, Pruthi R, Palou Redorta J, Richstone L, Schanne F, Stricker H, Wiklund P, **Chandrasekhar R**, Wilding GE, Guru KA. The learning curve of robot-assisted radical cystectomy: results from the International Robotic Cystectomy Consortium. Eur Urol. 2010 Aug;58(2):197-202.
- 13. Seixas-Mikelus SA, Kesavadas T, Srimathveeravalli G, **Chandrasekhar R**, Wilding GE, Guru KA. Face validation of a novel robotic surgical simulator. Urology. 2010 Aug;76(2):357-60.
- 14. Yang GY, May KS, Iyer RV, **Chandrasekhar R**, Wilding GE, McCloskey SA, Khushalani NI, Yendamuri SS, Gibbs JF, Fakih M, Thomas CR Jr. Renal atrophy secondary to chemoradiotherapy of abdominal malignancies. Int J Radiat Oncol Biol Phys. 2010 Oct 1;78(2):539-46.
- 15. Guru K, Seixas-Mikelus SA, Hussain A, Blumenfeld AJ, Nyquist J, **Chandrasekhar R**, Wilding GE. Robot-assisted intracorporeal ileal conduit: Marionette technique and initial experience at Roswell Park Cancer Institute. Urology. 2010 Oct;76(4):866-71.
- 16. Yuh BE, Hussain A, **Chandrasekhar R**, Bienko M, Piacente P, Wilding G, Menon M, Peabody J, Guru KA. Comparative analysis of global practice patterns in urologic robot-assisted surgery. J Endourol. 2010 Oct;24(10):1637-44.
- 17. Qiu J, Kulkarni S, **Chandrasekhar R**, Rees M, Hyde K, Wilding G, Tan D, Khoury T. Effect of delayed formalin fixation on estrogen and progesterone receptors in breast cancer: a study of three different clones. Am J Clin Pathol. 2010 Nov;134(5):813-9.
- 18. duPont NC, **Chandrasekhar R**, Wilding G, Guru KA. Current trends in robot assisted surgery: a survey of gynecologic oncologists. Int J Med Robot. 2010 Dec;6(4):468-72.
- 19. Khoury T, **Chandrasekhar R**, Wilding G, Tan D, Cheney RT. Tumour eosinophilia combined with an immunohistochemistry panel is useful in the differentiation of type B3 thymoma from thymic carcinoma. Int J Exp Pathol. 2011 Apr;92(2):87-96.
- 20. Seixas-Mikelus SA, Stegemann AP, Kesavadas T, Srimathveeravalli G, Sathyaseelan G, Chandrasekhar R, Wilding GE, Peabody JO, Guru KA. Content validation of a novel robotic surgical simulator. BJU Int. 2011 Apr;107(7):1130-5.
- 21. Kesavadas T, Stegemann A, Sathyaseelan G, Chowriappa A, Srimathveeravalli G, Seixas-Mikelus S, **Chandrasekhar R**, Wilding G, Guru K. Validation of Robotic Surgery Simulator (RoSS). Stud Health Technol Inform. 2011;163:274-6.
- 22. Wilding GE, **Chandrasekhar R**, Hutson AD. A new linear model-based approach for inferences about the mean area under the curve. Stat Med. 2012 Dec 10;31(28):3563-78.
- 23. Khoury T, Ademuyiwa FO, **Chandrasekhar R**, Jabbour M, Deleo A, Ferrone S, Wang Y, Wang X. Aldehyde dehydrogenase 1A1 expression in breast cancer is associated with stage, triple negativity, and outcome to neoadjuvant chemotherapy. Mod Pathol. 2012 Mar;25(3):388-97.
- 24. Stegemann A, Rehman S, Brewer K, Kesavadas T, Hussain A, **Chandrasekhar R**, Wilding GE, Guru KA. Short-term patient-reported quality of life after robot-assisted radical cystectomy using the Convalescence and Recovery Evaluation. Urology. 2012 Jun;79(6):1274-9.
- 25. Monhollen L, Morrison C, Ademuyiwa FO, **Chandrasekhar R**, Khoury T. Pleomorphic lobular carcinoma: a distinctive clinical and molecular breast cancer type. Histopathology. 2012 Sep;61(3):365-77.
- 26. Poch MA, Stegemann A, **Chandrasekhar R**, Hayn M, Wilding G, Guru KA. Does body mass index impact the performance of robot-assisted intracorporeal ileal conduit?. J Endourol. 2012 Jul;26(7):857-60.

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- 27. Malik NK, May KS, **Chandrasekhar R**, Wee W, Flaherty L, Iyer R, Gibbs J, Kuvshinoff B, Wilding G, Warren G, Yang GY. Treatment of locally advanced unresectable pancreatic cancer: a 10-year experience. J Gastrointest Oncol. 2012 Dec;3(4):326-34.
- 28. Zoorob R, Buchowski MS, Beech BM, Canedo JR, **Chandrasekhar R**, Akohoue S, Hull PC. Healthy families study: design of a childhood obesity prevention trial for Hispanic families. Contemp Clin Trials. 2013 Jul;35(2):108-21.
- 29. Epstein RA, Bobo WV, Shelton RC, Arbogast PG, Morrow JA, Wang W, **Chandrasekhar R**, Cooper WO. Increasing use of atypical antipsychotics and anticonvulsants during pregnancy. Pharmacoepidemiol Drug Saf. 2013 Jul; 22(7):794-801.
- 30. Epstein RA, Bobo WV, Martin PR, Morrow JA, Wang W, **Chandrasekhar R**, Cooper WO. Increasing pregnancy-related use of prescribed opioid analgesics. Ann Epidemiol. 2013 Aug;23(8):498-503.
- 31. Frangoul H, Min E, Wang W, **Chandrasekhar R**, Calder C, Evans M, Manes B, Bruce K, Brown V, Ho R, Domm J. Incidence and risk factors for hypogammaglobulinemia in pediatric patients following allo-SCT. Bone Marrow Transplant. 2013 Nov;48(11):1456-9.
- 32. Yang GY, Malik NK, **Chandrasekhar R**, Ma WW, Flaherty L, Iyer R, Kuvshinoff B, Gibbs J, Wilding G, Warren G, May KS. Change in CA 19-9 levels after chemoradiotherapy predicts survival in patients with locally advanced unresectable pancreatic cancer. J Gastrointest Oncol. 2013 Dec;4(4):361-9.
- 33. Kane I, Abramo T, Meredith M, Williams A, Crossman K, Wang W, **Chandrasekhar R**. Cerebral oxygen saturation monitoring in pediatric altered mental status patients. Am J Emerg Med. 2014 Apr;32(4):356-62.
- 34. Yoder PJ, Bottema-Beutel K, Woynaroski T, **Chandrasekhar R**, Sandbank M. Social communication intervention effects vary by dependent variable type in preschoolers with autism spectrum disorders. Evid Based Commun Assess Interv. 2013;7(4):150-174.
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- 121. **R Chandrasekhar**, EW Ely, MB Patel. (2019). Challenges With Postoperative Cognitive Impairment Research. JAMA Surgery. (*Invited Commentary*)
- 122. MJ Hayat, VS Staggs, TA Schwartz, M Higgins, A Azuero, C Budhathoki, **R Chandrasekhar**, P Cook, E Cramer, MS Dietrich, M Garnier-Villarreal, A Hanlon, J He, J Hu, M Kim, M Mueller, JR Nolan, Y Perkhounkova, J Rothers, G Schluck, X Su, TN Templin, MT Weaver, Q Yang, S Ye. (2019). Moving Nursing beyond p<.05. International Journal of Nursing Studies.

External Invited Lectures/Seminars/Workshops

- **Feb 2011** Cincinnati Children's Hospital Medical Center *A new linear model-based approach for modeling the area under the outcome-time curve.*
- **Feb 2011** Memorial Sloan-Kettering Cancer Center *A new linear model-based approach for modeling the area under the outcome-time curve.*
- **Mar 2011** University of Wisconsin-Milwaukee *A new linear model-based approach for modeling the area under the outcome-time curve.*
- May 2016 Centers for Disease Control and Prevention (CDC) Influenza Hospitalization Surveillance Network (FluSurv-NET) Multi-level Regression Modeling in Influenza.
- May 2017 Johns Hopkins Delirium Consortium Relating delirium or other longitudinal exposure variables to scalar long-term health outcomes: the role of functional data analysis.
- June 2017 Statistical Workshop at American Delirium Society Meeting Relating delirium or other longitudinal exposure variables to scalar long-term health outcomes.
- **Feb 2018** Meharry Medical College, Nashville TN *Misleading Statistics*. Lecture given as part of the Capstone Course.
- **June 2018** Statistical Workshop at American Delirium Society Meeting Survivor and attrition bias-What can we do about it?
- **July 2018** Amritha University, India *Statistical aspects of evaluating the performance of medical tests.*
- **Feb 2019** Meharry Medical College, Nashville TN *Ethics, Critical Thinking and Statistics*. Lecture given as part of the Capstone Course.
- May 2019 Centers for Disease Control and Prevention (CDC) *Leveraging data sources to enhance and drive health disparities research.*
- June 2019 Statistical Workshop at American Delirium Society Meeting *Pragmatic Trials in Delirium*.
- Oct 2019 Network for Investigation of Delirium: Unifying Scientists (NIDUS) Clinical Trials Webinar Statistical Issues in Trial Design.
- June 2020 Federal Committee on Statistical Methodology Geospatial Interest Group (GIG) Geocoding and linkage of multiple sources of data to inform policy and programs in the child welfare system.
- Oct 2020 American Statistical Association Government and Social Statistics Sections Practicum on Blended Data Prescription monitoring in the child welfare system by linking administrative, census and prescription data.
- June 2021 Statistical Workshop at American Delirium Society Meeting Addressing missing daily assessments when computing a summary measure like delirium duration: Implications of various practical approaches.
- Oct 2021 University of Alabama at Tuscaloosa Leveraging multiple sources of data to inform policy and programs in the child welfare system.
- Sept 2022 Institute for Social Neuroscience, Melbourne, Australia *Use of integrated administrative data to inform policy and programs*.
- **Feb 2023** University of Sussex, England *Informing policy development and implementation in the child welfare system using integrated administrative data: An example from the United States.*
- **Apr 2023** University of Louisville, Kentucky *Prescription monitoring in the child welfare system and its challenges.*
- Oct 2023 Bioethics Interest Group at The George Washington University Ethics and Public Health Webinar Series *Ethics and Statistics Education*.

Internal Invited Lectures/Seminars

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- Mar 2011 A new linear model-based approach for modeling the area under the outcome-time curve. Department of Biostatistics, Vanderbilt University School of Medicine.
- **Feb 2012** Guest lecture *BME 260 Analysis of biomedical data*: Estimation of sample size and power. Department of Biomedical Engineering, Vanderbilt University School of Engineering.
- **Feb 2012** Guest lecture *BME 260 Analysis of biomedical data*: Two sample testing. Department of Biomedical Engineering, Vanderbilt University School of Engineering.
- Aug 2013 A linear model-based approach for inferences about the area under the curve with repeated measures and values below the limit of detection. Vanderbilt Department of Biostatistics, Continuing Education Informal Workshop.
- Oct 2013 Guest lecture *PUBH 5514 Social and Behavioral Science for Public Health*: An 80 min lecture on data management. Vanderbilt University School of Medicine.
- Oct 2015 Socioeconomic disparities and influenza hospitalizations in TN. Health Policy Faculty Meeting, Vanderbilt University School of Medicine.
- **Dec 2017** Prescriber profiling in the child welfare system and its challenges. Department of Biostatistics Seminar, Vanderbilt University School of Medicine.
- Mar 2019 Statistical methods to address psychotropic medication use in the child welfare system. Vanderbilt Kennedy Centre.
- Apr 2023 Instruments Assessing Cognitive Impairment in Survivors of Critical Illness and Reporting of Race Norms: A Systematic Review. Vanderbilt Center for Health Services Research.

Contributed Presentations

- Oct 2007 Xerogel Package. (Poster). UB Warren Perry Lecture, SUNY at Buffalo.
- Mar 2009 Estimating percentiles in dose-response curves for delayed responses using an adaptive compound urn design. (Poster). International Biometrics Society Eastern North American Region (ENAR) Annual Meeting.
- **June 2010** A new linear model-based approach for modeling the area under the curve. (Poster). Southern Regional Council on Statistics (SRCOS) Summer Research Conference.
- Aug 2012 A linear model-based approach for inferences about the area under the curve with repeated measures and values below the limit of detection. Joint Statistical Meeting (JSM).
- Oct 2016 Social Determinants of Influenza Hospitalization in the United States. IDWeek Annual Meeting.

Tech Reports

123. C-X Ma, R **Chandrasekhar**, R Wu. Linkage Analysis for Misclassified Markers. https://sphhp.buffalo.edu/content/dam/sphhp/biostatistics/Documents/techreports/UB-Biostatistics-TR1003.pdf

Computational Packages

1. **R Chandrasekhar**, JC Miecznikowski, DP Gaile, V Govindaraju, FV Bright, KF Sellers. https://sphhp.buffalo.edu/biostatistics/research-and-facilities/software/xerogel.html

Outreach

- 1. CWS Webinar: Implicit Bias in Image Searches, M Johnston, D LaLonde, **R Chandrasekhar**, 2018. https://cwstat.org/implicit-bias-in-image-searches/
- 2. Mentor: Camp Talaria, Remote mentorship program. 2020

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