Curriculum Vitae

Name:	Jonathan Porter Wanderer
Work Email:	jonathan.p.wanderer@vanderbilt.edu

Education

09/1999 - 05/2003	B.A. in Biological Basis of Behavior from University of Pennsylvania, PA United States
09/1999 - 05/2003	B.S. in Computer and Cognitive Science from University of Pennsylvania, Philadelphia, PA
08/2003 - 08/2004	M.Phil. in Biology from University of Cambridge, United Kingdom
08/2004 - 05/2008	M.D. from University of Pennsylvania, PA United States

Training

06/2008 - 06/2009	Internship in Medicine from Pennsylvania Hospital, Philadelphia, PA
08/2009 - 08/2012	Residency in Anesthesia from Massachusetts General Hospital, Boston, MA

Licensure and Certification

2007 - Present	Certification, Advanced Cardiac Life Support United States
2012 - Present	Medical License, Medical License, Full Medical License, State of Tennessee of Tennessee United States (48268)
2012 - Present	Registration, Federal DEA United States United States
10/2013 - Present	Board Certification, American Board of Anesthesiology (51453)

Academic Appointments

09/2012 - 09/2013	Instructor in Anesthesiology, Vanderbilt University (Nashville, Tennessee)
10/2013 - Present	Assistant Professor in Biomedical Informatics, Vanderbilt University (Nashville, Tennessee)
10/2013 - Present	Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Other Work Experience

02/2013 - Present	Associate Medical Director, Vanderbilt Anesthesiology and Perioperative Informatics Research Division, Vanderbilt University
04/2013 - Present	Medical Director, Vanderbilt Procedure Preparation Center, Vanderbilt University

Professional Organizations

2004	American Medical Association
2008	American Society of Anesthesiologists
2009	International Anesthesia Research Society
2010	American Medical Informatics Association
2013	Society of Anesthesia and Sleep Medicine
2013	Society for Perioperative Assessment and Quality Improvement

Research Supervision / Mentorship

03/2012 - 05/2013	Adam Was Stanford University, Current Position: Resident. (Medical Student, Research)
04/2012 - Present	John Anderson-Dam UCLA, Current Position: Fellow. (Resident, Research)
05/2012 - 05/2013	Matthew Sigakis Massachusetts General Hospital, Current Position: Anesthesiologist. (Resident, Research)
09/2012 - Present	Peggy Kim Massachusetts General Hospital, Current Position: Resident. (Resident, Research)
05/2013 - Present	Daniel Haines University of Kansas, Current Position: Medical Student. (Medical Student, Research)
06/2013 - Present	Austin Woolard University of Tennessee College of Medicine, Current Position: Medical Student. (Medical Student, Research)
09/2013 - 12/2013	Spencer Jennings Vanderbilt University, Current Position: Human and Organizational Development Intern. (Undergraduate, Research)
12/2013 - Present	Calvin Gruss Vanderbilt University. (Medical Student, Research)
01/2014 - Present	Daniel Hagaman Vanderbilt University, Current Position: Human and Organizational Development Intern. (Undergraduate, Research)

Grants and Funding

W81XWH-09-2-0001 Jesse M. Ehrenfeld (PI) 2010 - 2011

Center for Integration of Medicine & Innovative Technology / U.S. Army Medical Research Acquisition Activity (USAMRAA Cooperative Agreement

Virtual Monitoring Station: A Prototype

Role: Co-Principal Investigator

Total Cost: $15,000.00

Honors / Awards

1999	Mandell Undergraduate Essay Contest Award, University of Pennsylvania
2001	Racklin Neuroscience Research Grant, University of Pennsylvania
2002	Recognition of Service Award, Republic of Ecuador
2002	AmeriCorps Education Award, AmeriCorps
2002	Golden Key International Honour Society Undergraduate Scholarship, Golden Key
2002	Barry M. Goldwater Scholar, Goldwater Foundation
2003	Abraham D. Cohn Prize, University of Pennsylvania
2003	James Howard Weiss Memorial Award, University of Pennsylvania
2003	Edward N. Pugh Award, University of Pennsylvania
2003	The Applied Science Prize, University of Pennsylvania
2003	Churchill Scholar, The Winston Churchill Foundation
2003	Gamble Scholar, University of Pennsylvania
2003	Phi Beta Kappa, University of Pennsylvania
2004	Morton McCutcheon Medical Student Research Prize, University of Pennsylvania
2007	Alpha Omega Alpha Carolyn L. Kuckein Student Research Fellowship, Alpha Omega Alpha
2008	Alpha Omega Alpha Medical Honor Society, Alpha Omega Alpha
2008	Merck Manual Award, University of Pennsylvania
2008	Joel Gordon Miller Award, University of Pennsylvania
2010	Partners in Excellence Award for Leadership, Partners HealthCare
2011	Mentoring Program, Workshop on Interactive Systems in Healthcare
2012	3rd Place Abstract, HIMSS Physician IT Symposium
2012	Top 5 Abstracts, Society for Technology in Anesthesia Annual Meeting
2013	Best Oral Presentation, 9th Annual Anesthesiology Departmental Research Symposium, Vanderbilt University
2013	Charles Bernard Pittinger Prize for Excellent in Health Services and Informatics Research, Vanderbilt University

Publications

Peer Reviewed Publications

Research Articles

1. Wood NI, Pallier PN, **Wanderer J**, Morton AJ. Systemic administration of Congo red does not improve motor or cognitive function in R6/2 mice. Neurobiology of disease 2007 Feb;25(2):342-53. PMID: 17095235.
2. **Wanderer J**, Morton AJ. Differential morphology and composition of inclusions in the R6/2 mouse and PC12 cell models of Huntington's disease. Histochemistry and cell biology 2007 May;127(5):473-84. PMID: 17285342.
3. Gong B, Lim MC, **Wanderer J**, Wyttenbach A, Morton AJ. Time-lapse analysis of aggregate formation in an inducible PC12 cell model of Huntington's disease reveals time-dependent aggregate formation that transiently delays cell death. Brain research bulletin 2008 Jan;75(1):146-57. PMID: 18158109.
4. Ahn J, Man LX, **Wanderer J**, Bernstein J, Iannotti JP. The future of the orthopaedic clinician-scientist. Part I: The potential role of MD-PhD students considering orthopaedic surgery. The Journal of bone and joint surgery. American volume 2008 Aug;90(8):1794-9. PMID: 18676927.
5. **Wanderer JP**, Rao AV, Rothwell SH, Ehrenfeld JM. Comparing two anesthesia information management system user interfaces: a usability evaluation. Canadian journal of anaesthesia = Journal canadien d'anesthesie 2012 Nov;59(11):1023-31. PMID: 23055030.
6. **Wanderer JP**, Ehrenfeld JM, Sandberg WS, Rathmell JP. Infographics in anesthesiology: a volatile tale of two institutions. Anesthesiology 2013 Jun;118(6):1456. PMID: 23059452.
7. Was A, **Wanderer J**. Matching clinicians to operative cases: a novel application of a patient acuity score. Applied clinical informatics 2013 Jul;4(3):445-53. PMID: 24155796 PMCID: PMC3799214.
8. **Wanderer JP**, Leffert LR, Mhyre JM, Kuklina EV, Callaghan WM, Bateman BT. Epidemiology of obstetric-related ICU admissions in Maryland: 1999-2008*. Critical care medicine 2013 Aug;41(8):1844-52. PMID: 23648568 PMCID: PMC3716838.
9. **Wanderer JP**, Charnin J, Driscoll WD, Bailin MT, Baker K. Technical communication: decision support using anesthesia information management system records and accreditation council for graduate medical education case logs for resident operating room assignments. Anesthesia and analgesia 2013 Aug;117(2):494-9. PMID: 23749442.
10. **Wanderer JP**, Anderson-Dam J, Levine W, Bittner EA. Development and validation of an intraoperative predictive model for unplanned postoperative intensive care. Anesthesiology 2013 Sep;119(3):516-24. PMID: 23756454.
11. Sigakis MJ, Bittner EA, **Wanderer JP**. Validation of a Risk Stratification Index and Risk Quantification Index for Predicting Patient Outcomes: In-hospital Mortality, 30-day Mortality, 1-year Mortality, and Length-of-stay. Anesthesiology 2013 Sep;119(3):525-40. PMID: 23770598.
12. Phitayakorn R, Morales-Garcia D, **Wanderer J**, Lubitz CC, Gaz RD, Stephen AE, Ehrenfeld JM, Daniels GH, Hodin RA, Parangi S. Surgery for Graves' disease: a 25-year perspective. American journal of surgery 2013 Nov;206 (5):669-73. PMID: 24011567.

Review Articles

1. **Wanderer JP**, Sandberg WS, Ehrenfeld JM. Real-time alerts and reminders using information systems. Anesthesiology clinics 2011 Sep;29(3):389-96. PMID: 21871401 PMCID: PMC3164521.
2. **Wanderer JP**, Ehrenfeld JM. Clinical decision support for perioperative information management systems. Seminars in cardiothoracic and vascular anesthesia 2013 Dec;17(4):288-93. PMID: 23690340.

Letters

1. **Wanderer JP**, Ehrenfeld JM, Sandberg WS, Epstein RH. The changing scope of difficult airway management. Canadian journal of anaesthesia = Journal canadien d'anesthesie 2013 Jul; PMID: 23897492.
2. **Wanderer JP**, Blum JM, Ehrenfeld JM. Intraoperative low-tidal-volume ventilation. The New England journal of medicine 2013 Nov;369(19):1861. PMID: 24195560.

Non-Peer Reviewed Publications

Letters

1. **Wanderer JP**, Ehrenfeld JM, Sandberg WS, Epstein RH. Reply to: Reflections on the changing scope of difficult airway management. Canadian journal of anaesthesia = Journal canadien d'anesthesie 2014 Jan;61(1):85. PMID: 24536098.

Research Articles

1. **Wanderer J**, Mishra P, Ehrenfeld J. Innovation & market consolidation among electronic health record vendors: an acute need for regulation. Journal of medical systems 2014 Jan;38(1):8. PMID: 24424431.

Others

1. **Wanderer JP**, Pilla M, Rothman B. Society for Anesthesia and Sleep Medicine Newsletter: Implementation of the STOP-Bang Screening Tool within a Perioperative Information Management System. 2014 Jan.
2. **Wanderer JP**. Infographics in Anesthesiology: Resident Anesthetic Case Types. 2014 Jan; PMID: 24536098.
3. **Wanderer JP**, Rathmell JM. Infographics in Anesthesiology: Using the STOP-BANG criteria for preoperative screening. 2014 Feb.

Book Chapters

1. **Wanderer JP**, Ehrenfeld JM. Benefits and Drawbacks of Health Care Information Technology. Monitoring Technologies in Acute Care Environments. 2013 Dec.
2. **Wanderer JP**, Ehrenfeld JM. Overview of Electronic Health Records. Monitoring Technologies in Acute Care Environments. 2013 Dec.

Presentations

Presentations at Scientific Meetings

1. Ahn J, Lawrence J, Halpern S, Wanderer J, Glaser D. American Orthopaedic Association Annual Meeting. Ashville, North Carolina. 2007 Jun; Identification of factors that may influence orthopaedic residents intent to perform research.
2. Hanson CW, Wanderer J. Medicine Meets Virtual Reality 16. Long Beach, California. 2008 Jan; Neurofuzzy derived topographies of cardiac performance.
3. Bowers AL, Ahn J, Wanderer J, Keenan MA. American Orthopedic Association Annual Meeting. Quebec, Canada. 2008 Jun; Exposure to educational resources increases interest in orthopaedics among female medical students.
4. Wanderer J, Leffert L, Bateman BT. Society for Obstetric Anesthesia and Perinatology Annual Meeting. Las Vegas, Nevada. 2011 Apr; Epidemiology of Pregnancy-Related ICU Admissions in Maryland: 1999-2008.
5. Ehrenfeld JM, Wanderer J, Hersey S, Eagle S, Sandberg WS. International Anesthesia Research Society. Vancouver, Canada. 2011 May; Pilot Implementation & Assessment of a Computerized Preanesthetic Assessment Tool.
6. Wanderer J,P Rao AV, Rothwell SH, Ehrenfeld JM. International Anesthesia Research Society. Vancouver, Canada. 2011 May; Anesthesia Information Management System Ergonomics: A Novel Method for Analyzing Documentation Workflow.
7. Wanderer J, Karson A. Workshop for Interactive Systems in Healthcare. Washington, Dist. Of Col.. 2011 Oct; Seeing the forest for the trees: Making electronic medication administration records usable through interactive visualization.
8. Wanderer JP, Forman S, Baker K. Society for Technology in Anesthesia. West Palm Beach, Florida. 2012 Jan; Residents helping in navigating OR scheduling (Rhinos): An on-line system for facilitating self-directed learning.
9. Hester HL, Wanderer JP, Frazier KB, Ehrenfeld JM. Society for Technology in Anesthesia. West Palm Beach, Florida. 2012 Jan; The Methodology in Creating a Stewardship System of Pharmaceutical Costs for Anesthesia Providers.
10. Wanderer JP, Jackson YM, Karson A. Physician IT Symposium. Healthcare Information and Management Systems Society; Las Vegas, Nevada. 2012 Feb; Diagnosis-Based Clinical Decision Support Improves CHF Quality Measures.
11. Phitaykorn R, Wanderer JP, Ehrenfeld JM, Morales-Garcia D, Daniels G, Lubitz C, Gaz R, Stephen AE, Randolph G, Parangi S, Hodin RA. American Association of Endocrine Surgeons. Iowa City, Iowa. 2012 Apr; Graves Disease Revisited: When is it safe to operate?.
12. Phitaykorn R, Wanderer JP, Lubitz C, Daniels G, Ehrenfeld JM, Parangi S, Stephen AE, Hodin RA. American Association of Endocrine Surgeons. Iowa City, Iowa. 2012 Apr; Phenoxybenzamine: Still a Good Match for Pheochromocytoma?.
13. Wanderer JP, Baker K, Forman S. International Anesthesia Research Society. Boston, Massachusetts. 2012 May; Platform for Operating Room Teach and Learning (PORTAL).
14. Hester D, Wanderer JP, Ehrenfeld JM. American Society of Anesthesiologists. Washington, Dist. Of Col.. 2012 Oct; Development of a Methodology for Identification of Cost Variation Among Anesthesia Providers.
15. Was A, Wanderer JP. American Society of Anesthesiologists. Washington, Dist. Of Col.. 2012 Oct; Clinical Decision Support Using the Risk Stratification Index.
16. Brueckmann B, Wanderer JP, Bateman BT, Sundrup MG, Schlett CL, Eikermann M. American Society of Anesthesiologists. Washington, Dist. Of Col.. 2012 Oct; Development and Validation of the MGH Postoperative

Respiratory Complications Prediction Score (PORCS).

17. Wanderer J, Bittner EA. American Society of Anesthesiologists. Washington, Dist. Of Col.. 2012 Oct; External Validation of the Risk Stratification Index for Prediction of In-Hospital Mortality and Utility in Pre-Operative Assessment.
18. Wanderer J, Baker KH. American Sociey of Anesthesiology. Washington, Dist. Of Col.. 2012 Oct; Creating Resident Profiles From ACGME and AIMS records: Usable Clinical Decision Support for OR Assignments.
19. Wanderer JP, Anderson-Dam J. Society for Technology in Anesthesia. Phoenix, Arizona. 2013 Jan; Estimated Blood Loss: A Comparison of Operative Notes and AIMS Records.
20. Wanderer JP, Anderson-Dam J, Levine W, Bitter AE. International Anesthesia Research Society Annual Meeting. San Diego, California. 2013 May; Development and Validation of an Intra-Operative Prediction Model for Unplanned Post-Operative Intensive Care.
21. Kim P, Wanderer JP, Eikermann M, Allbritton DW, Baker KH. International Association of Medical Science Educators Annual Meeting. Scotland, United Kingdom. 2013 Jun; Offering Anesthesia Residents Input in Case Assignments May Facilitate Self-Directed Learning.
22. Wanderer JP, Ehrenfeld JM. Meaningful Use of Complex Medical Data. Los Angeles, California. 2013 Aug; Use of Preoperative Anesthesia Assessments by Non-Anesthesia Personnel: An Electronic Audit Log Analysis.
23. Riccio C, Pilla M, Ambrose A, Wanderer JP, Ehrenfeld JM. Society of Anesthesia and Sleep Medicine Annual Meeting. Society of Anesthesia and Sleep Medicine; San Francisco, California. 2013 Oct; Impact of a Post-Operative Obstructive Sleep Apnea Management Program on Perioperative Outcomes and Adverse Events.
24. Haines DO, Wanderer JP, Naslund TC, Furman WR. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Prophylactic Cerebrospinal Fluid Drainage and Neurologic Outcomes Following Thoracic Endovascular Aneurysm Repair.
25. Wanderer JP, Hester DL, Sandberg WS, Anderson-Dam J, Ehrenfeld JM. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Identification of Factors Influencing Anesthetic Drug Cost Variation.
26. Anderson-Dam JL, Wanderer JP. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Retrospective Analysis of Direct Drug Costs and Associated Time Costs Comparing Sevoflurane and Isoflurane Anesthetics in an Academic Setting.
27. Ladha K, Wanderer JP, Nanji K. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Age as a Predictor of Opioid Administration Immediately After the Emergence of Anesthesia.
28. Jenkins DN, Hayes RM, Wanderer JP, Dmochowski RR,Ehrenfeld JM. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Incidence of Postoperative Deterioration in a Cohort of 35,090 Surgical Patients.
29. Wanderer JP, Ehrenfeld JM, Sandberg WS, Epstein RH. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; The Changing Scope of Difficult Airway Management.
30. Wanderer JP, Park S. American Medical Informatics Association Annual Meeting. American Medical Informatics Association; Washington, Dist. Of Col.. 2013 Nov; WanderingData: Data Visualization Techniques for Neurocritical Intensive Care.
31. Johnson M, Wanderer JP, Snyder D, Ehrenfeld JM. American Medical Informatics Association Annual Meeting. American Medical Informatics Association; Washington, Dist. Of Col.. 2013 Nov; Development of a Perioperative Data Warehouse to Improve Quality and Manage Costs at a Large Academic Medical Center.
32. Ehrenfeld JM, Denton J, Eldridge C, Wanderer JP. American Medical Informatics Association Annual Meeting. American Medical Informatics Association; Washington, Dist. Of Col.. 2013 Nov; Using Data Visualization Techniques to Identify Laboratory Data Types in a Data Warehouse.
33. Jennings ST, Wanderer JP, Ehrenfeld JM. Society for Technology in Anesthesia Annual Meeting 2014. Orlando, Florida. 2014 Jan; Preoperative Type and Screen Testing for Elective Surgery: Using a Data Warehouse to Identify Workflow Process Errors.
34. Selig S, Johnson M, Wanderer JP, Ehrenfeld JM. Society for Technology in Anesthesia Annual Meeting 2014. Orlando, Florida. 2014 Jan; Development of a Student-Faculty Matching Algorithm for Preceptorship Placement.
35. Thompson B, Johnson M, Ehrenfeld JM, McEvoy M, Wanderer JP. Society for Technology in Anesthesia Annual Meeting 2014. Orlando, Florida. 2014 Jan; An Automated Case Cancellation Review System For Enhancing Systems-Based Practice in Anesthesia Residency Training.
36. Ehrenfeld JM, McEvoy MD, Wanderer JP, Furman WR, Snyder D, Sandberg WS. Accreditation Council for Graduate Medical Education Annual Educational Conference. Gaylord National Harbor, Maryland. 2014 Mar; Creation of a Near Real-Time Clinical Performance Feedback Tool.

Panel Presentation

1. Wanderer J. American Sociey of Anesthesiology. Washington, Dist. Of Col.. 2012 Oct; Introduction to Social Media for the Anesthesiologist.
2. Wanderer J. Society for Technology in Anesthesia. Phoenix, Arizona. 2013 Jan; AIMS Clinical Decision Support:

What Can Be Done Today?.

3. Wanderer J. Society for Technology in Anesthesia Annual Meeting. Orlando, Florida. 2014 Jan; Metadata, Electronic Medical Records and Clinicians: Big Data, Big Brother, Big Opportunity?.

Medically Challenging Cases

1. Richards JE, Wanderer JP. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; Management of Von Willebrands Disease in a Jehovah s Witness Presenting for Radical Nephrectomy.
2. Mudrick T, Wanderer JP. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2013 Oct; PEA Arrest Due to a Tension Hemothorax: A Case Study.

University Talk

1. Jonathan P. Wanderer. Informatics Seminar. Nashville, Tennessee. 2013 Feb; Perioperative Risk Prediction Models: Development, Validation and Use.

Internal Grand Rounds

1. Wanderer JP. Department of Anesthesiology Grand Rounds. Vanderbilt University; Nashville, Tennessee. 2013 Dec; Preoperative Assessment and Perioperative Medicine.

Invited Presentation - Local

1. Wanderer J. Weekly Informatics Seminar. Vanderbilt University; Nashville, Tennessee. 2011 Apr; Data visualization in anesthesia: Turning numbers into clinical pictures.

Other

1. Wanderer J, Driscoll W, Ehrenfeld JM. iMDsoft User Group Annual Meeting. Boston, Massachusetts. 2010 Jun; Graphical Documentation for an Anesthesia Information Management System.