

Curriculum Vitae

JESSICA S ANCKER, MPH, PHD, FACMI

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Date and Place of Birth: September 6, 1965, Cleveland, Ohio

EDUCATION

College

- Harvard College, Cambridge, MA: *AB magna cum laude*
History and science
9/1984 – 6/1987

Professional or graduate

- Columbia University, College of Physicians and Surgeons, New York, NY: PhD in biomedical informatics, 9/2005 – 5/2009
- Columbia University, Mailman School of Public Health, New York, NY: MPH in biostatistics, 9/2001 – 5/2003

ACADEMIC APPOINTMENTS

- Professor (secondary appointment), Department of Health Policy, Vanderbilt University Medical Center, 2021 – present
- Professor, Department of Biomedical Informatics, Vanderbilt University Medical Center, 2021 – present
- Vice Chair for Educational Affairs, Department of Biomedical Informatics, Vanderbilt University Medical Center, 2021 – present
- Associate Professor, Health Informatics, Department of Population Health Sciences, Weill Cornell Medicine and Weill Cornell Graduate School of Medical Sciences, 2015 – 2020
- Assistant Professor, Health Informatics, Department of Healthcare Policy and Research (currently known as Population Health Sciences), Weill Cornell Medicine and Weill Cornell Graduate School of Medical Sciences, 2010 – 2014
- Assistant Professor, Pediatrics, Weill Cornell Medicine, 2009 – 2014
- Adjunct Assistant Professor, Department of Biostatistics, Columbia University, Mailman School of Public Health, 2009 – 2010
- Instructor in English as a foreign language, Department of Foreign Languages, Nanjing University, Nanjing, People's Republic of China, 1987 – 1988

Other employment

- Biostatistician and medical writer, NICHD Traumatic Brain Injury Clinical Trials Network, Columbia University, Mailman School of Public Health, Department of Biostatistics, New York, NY 2002 – 2004
- Manager, Division of Medical Editing Services, The Cleveland Clinic, Cleveland, OH 1998 – 2001
- Editorial Manager for Science, University at Buffalo, Buffalo, NY 1996 – 1997
- Newswoman, The Associated Press, Albany, NY office, 1991 – 1995
- Reporter, The Daily Messenger, Canandaigua, NY 1990 – 1991
- Freelance writer, Boston, MA 1988 – 1990

PROFESSIONAL ORGANIZATIONS

- American College of Medical Informatics, Elected Fellow, 2016 – present
- New York Academy of Medicine, Elected Fellow, 2015 – present
- American Medical Informatics Association, Member, 2009 – present
- Society for Medical Decision Making, Member, 2007 – present
- AcademyHealth, Member, 2011 – present
- American Medical Informatics Association, Student Member, 2005 – 2009
- Council of Science Writers, Member, 1998 – 2007
- American Medical Writers Association, Member, 1998 – present

PROFESSIONAL ACTIVITIES

Intramural

- Study section member, Vanderbilt Center for Health Services Research grant program, 2021-present
- Mock study section member, VICTR Studios (faculty development grant review workshops), Vanderbilt Institute for Clinical and Translational Research, 2023 – present.
- Committee on Appointments and Promotions (COAP), Vanderbilt University Department of Biomedical Informatics, 2021-present
- Graduate Admissions Committee, Vanderbilt University Department of Biomedical Informatics, 2021-present
- Academic Progress Committee, Vanderbilt University Department of Biomedical Informatics, 2021-present
- Curriculum Committee, Vanderbilt University Department of Biomedical Informatics, 2021-present
- Admissions Committee, Weill Cornell Health Informatics Master's Program, 2013 – 2020
- Admissions Committee, Weill Cornell Health Informatics Certificate Program, 2010 – 2013
- Founding Director, Health Informatics Certificate Program, Department of Healthcare Policy and Research (currently known as Population Health Sciences), Weill Cornell Medicine, 2010 – 2013
- Founding Director, Health Informatics Master's Track, Department of Healthcare Policy and Research (currently known as Population Health Sciences), Weill Cornell Medicine, 2013 – 2019
- Weill Cornell Department of Population Health Sciences Education and Curriculum Committee, 2009 – 2019
- Weill Cornell Samuel J Wood Medical Library Promotions Committee, 2018 – 2020

Institutional Committees and Centers

- Member, Vanderbilt-Ingram Cancer Center, Cancer Health Outcomes & Control research program, 2022-present
- Scholar, Vanderbilt University Center for Health Services Research
- Faculty Member, Cornell Center for Health Equity, 2018 – 2020
- Weill Cornell Center for Health Informatics and Policy, 2013 – 2017

**Extramural
Study Sections**

2023	Invited grant reviewer, Swiss National Science Foundation
2021-present	Merit grant reviewer, CHERISH (Center for Health Economics of treatment Interventions for Substance use disorders, HCV and HIV) center grant program, Cornell
2017-2021	Standing member, Agency for Healthcare Research and Quality (AHRQ) Healthcare Research and Training (HCRT) Study Section
2017	Ad-hoc merit grant reviewer for American University of Beirut
2010, -15, -17	Ad-hoc merit grant reviewer for National Science Foundation
2015-16	Ad hoc study section member, Agency for Healthcare Research and Quality (AHRQ) Healthcare Research and Training (HCRT) Study Section
2015	Chair, Review Panel, Office of the National Coordinator for Health Information Technology (ONC), DHHS Department of Health and Human Services
2015	Study section member, Smart and Connected Health panel, NIH/NSF
2014	Ad-hoc merit grant reviewer for Netherlands Organization for Scientific Research
2012-2013	Ad-hoc merit grant reviewer for Swiss National Science Foundation Division of Humanities and Social Science
2012	Ad-hoc merit grant reviewer for American Institute of Biological Sciences

Journal Service

2021-present	AE Director for the Student Editorial Board, <i>JAMIA</i>
2016-present	Associate Editor, <i>Medical Decision Making</i> and <i>MDM Policy & Practice</i>
2019	Associate Editor, <i>JAMIA Special Issue on Health Equity</i>
2018-present	Associate Editor, <i>Journal of the American Medical Informatics Association</i>
2018	Special section editor, <i>Better Decisions Together</i> , for <i>eGEMS: Generating Evidence & Methods to Improve Patient Outcomes</i>
2017-2018	International Medical Informatics Association (IMIA) Yearbook Committee
2014-2017	Editorial Board, <i>Methods of Information in Medicine</i>
2016-2018	Associate Editor, <i>BMC Medical Informatics and Decision Making (BMCMIDM)</i>
2013-present	Editorial Board, <i>Medical Decision Making</i>

Peer review statistics: <https://www.webofscience.com/wos/author/record/1653482>

National Committee Service

2022-present	External Advisory Board, Office of Health Information and Data Science (OHIDS), Washington University School of Medicine, Philip Payne, PhD, Director
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2022-present	External Advisory Board for the Diabetes Research for Equity through Advanced Multilevel Science Center for Diabetes Translational Research (DREAMS-CDTR), UCSF, Dean Schillinger, MD, PI
2022	ACMI Nominations and Awards Committee
2022	Technical expert, Agency for Healthcare Research and Quality Evidence Review, Telehealth During COVID-19
2020-21	Technical expert, AMIA Careers in Health Informatics Project (CHIP)
2020	Member, Technical Expert Panel (TEP) for AHRQ Evidence-Based Practice Center Program on “Telehealth During COVID19”
2018-19	Steering Committee, Patient-Centered Clinical Decision Support Learning Network (Agency for Healthcare Research and Quality and AcademyHealth)
2018	Member, AHRQ Technical Expert Panel on the Learning Health System
2017	Member, Steering Committee, Workshop on Interactive Systems in Healthcare
2017	Vice-chair, AMIA Annual Symposium Scientific Program Committee
2017	Member, Technical Expert Panel on the Learning Health System, Agency for Healthcare Research and Quality
2014-2016	Chair, Evaluation Working Group, American Medical Informatics Association
2016	Member, AMIA Annual Symposium Scientific Program Committee
2016	Member, Steering Committee, Workshop on Interactive Systems in Healthcare
2016	Member, HIE Measurement Workgroup, Office of the National Coordinator for Health Information Technology (ONC) (https://www.healthit.gov/sites/default/files/measurementfinrpt.pdf)
2015	Member, ONC Measurement Workgroup (Office of the National Coordinator of Health Information Technology, Department of Health and Human Services)
2014	Member, AMIA Annual Symposium Scientific Program Committee
2013-present	Member, AMIA Academic Forum
2004	Council of Science Writers, Chair, Conference on Conflict of Interest in Scientific Publication

International Committee Service

2017-2018	IEEE International Conference on Healthcare Informatics (ICHI) Human Factors Chair
2015-2016	Advisory panel member, Supporting Informed Healthcare Choices in Low-Income Countries, Norwegian Knowledge Centre for the Health Services (Cochrane Collaboration affiliate)

Honors and recognition

- Randolph A Miller Directorship in Biomedical Informatics Education, endowed chair, Vanderbilt University Medical Center, 2021-present
- *Applied Clinical Informatics* best paper selection, reprinted in the *International Medical Informatics Association Yearbook of Medical Informatics*, 2019 (Grossman et al, *ACI*, 2019)
- *BMC Medical Informatics and Decision Making* best paper selection, reprinted in the *International Medical Informatics Association Yearbook of Medical Informatics*, 2017 (Ancker, Edwards et al, *BMC MIDM* 2016)
- Election to American College of Medical Informatics (ACMI), 2016
- Homer R Warner Award for Outstanding Contribution to the Field of Biomedical Informatics, American Medical Informatics Association, 2016 (Ancker, Mauer, et al, *Proc AMIA Annu Symp* 2016)

- Election to New York Academy of Medicine, 2015
- Excellence in Teaching Award, Weill Cornell Medical College, 2013
- Homer R Warner Award for Outstanding Contribution to the Field of Biomedical Informatics, American Medical Informatics Association Annual Symposium, 2013 (Campion, Ancker, et al, *Proc AMIA Annu Symp* 2013)
- Best abstract, Society for Medical Decision Making, 2012
- American Medical Writers Association, Golden Apple Award for Excellence in Teaching, 2003
- *AB magna cum laude*, Harvard College, 1987

Other important activities

- Principal flute, Vanderbilt Commodore Orchestra, 2022-present
- Board of directors, String Orchestra of Brooklyn, New York, NY 2016 – 2020
- Principal flute, Weill Cornell Music & Medicine Orchestra, New York, NY 2011 – 2020
- Associate principal flute, piccolo, String Orchestra of Brooklyn, New York, NY 2009 – 2020
- Principal flute, Dell'Arte Opera ensemble, 2008-2011
- Principal flute, Occasional Opera Company, 2005-2020

TEACHING ACTIVITIES

Graduate Courses

- Course director and instructor, *BMIF6300 Foundations of Biomedical Informatics* (core introductory course for all PhD and MS students in biomedical informatics), Vanderbilt Department of Biomedical Informatics, 2021 – present
- Lecturer on scientific data display, *BMIF6321 Scientific Communication* (core course for all PhD and MS students in biomedical informatics), Vanderbilt Department of Biomedical Informatics, 2021 – present
- Lecturer on numeracy and risk communication, *GC6010 Introduction to Genetic Counseling*, 2022 – present
- Founding course director, course developer, and instructor, *HINF5004 Research Methods in Health Informatics* (core methodology course for all MS students in health informatics), Weill Cornell Graduate School of Medical Sciences, Health Informatics Master's track, 2013 – present
- Founding course director, course developer, and instructor, *Data Display for Decision Making* (elective for executive MBA students), Weill Cornell Graduate School of Medical Sciences Executive MBA/MS program, 2019 – present
- Lecturer, *Health Data for Research* (elective course for MS students in health policy), Weill Cornell Graduate School of Medical Sciences cross-listed course, 2010 – 2016
- Lecturer, *Scientific Writing* (core course for PhD students in biomedical sciences), Weill Cornell Graduate School of Medical Sciences cross-listed course, 2010 – 2016
- Lecturer on scientific data display, Fellowship in Quality and Medical Informatics, Weill Cornell Department of Pediatrics, 2016 – present

Medical School Courses

- Founding course director, course developer, and instructor, *Introduction to Biostatistics*, Weill Cornell Medicine (MS1 curriculum), 2013 – 2020
- Instructor/conference leader, *Introduction to Critical Appraisal in Evidence-Based Medicine*, Weill Cornell Medicine (MS1 curriculum), 2014 – 2020
- Instructor, Health Policy clerkship, Weill Cornell Medicine (MS4 curriculum), 2009 – 2020

- Instructor, Fellowship in Healthcare Quality and Medical Informatics, 2011 – 2020

Extramural Courses

- Workshop lead instructor, “Reporting Qualitative Research in Informatics,” AMIA Symposium, San Diego, CA, November 2021
- Workshop lead instructor, “Reporting Qualitative Research in Informatics,” AMIA Symposium, San Diego, CA, November 2022
- Instructor, statistics for journalists, Kavli Foundation, Online News Association, New Orleans, LA, September 2019
- Workshop lead instructor, “Beyond the RCT: Practical Study Designs for Evaluating Informatics in the Learning Health System.” AMIA Annual Symposium, Chicago, IL, November 2016
- Course director, intensive workshop on statistics for journalists, MIT-Knight Science Journalism Fellowship, Cambridge, MA 2015-2019
- Course director, module on statistics for journalists, Columbia School of Journalism, New York, NY 2005-present

Research Supervision

- **Mentored postdoctoral fellows**
 - Natalie C Benda, PhD, Nov. 2018 – 2020 (primary mentor and K award primary mentor)
- **Mentoring relationships with junior faculty**
 - Bryan Steitz, PhD, Vanderbilt Department of Biomedical Informatics, Jan. 2022 – present (K proposal mentoring committee)
 - Thomas Reese, PharmD, PhD, Vanderbilt Department of Biomedical Informatics (K proposal mentoring committee), 2021-present
 - Laurie Novak, PhD, Vanderbilt Department of Biomedical Informatics (senior faculty mentor)
 - Shane Stenner, MD, MS, Vanderbilt Department of Biomedical Informatics (senior faculty mentor)
 - Dara Mize, MD, MS, Vanderbilt Department of Biomedical Informatics (senior faculty mentor)
 - Megan Salwei Engebretsen, PhD, Vanderbilt Departments of Anesthesia and Biomedical Informatics (junior faculty mentoring committee), 2021-present
 - Natalie Benda, PhD, Instructor, Health Informatics Division of Department of Population Health Sciences, Weill Cornell Medical College (NIMHD K99 grant primary mentor), 2020-present
 - Arnab Ghosh, MD, Assistant Professor, Division of General Internal Medicine, Weill Cornell (co-mentor, Clinical and Translational Sciences KL2 award), 2019 – 2021
 - Meghan (Reading) Turchioe, RN, PhD, Instructor, Department of Population Health Sciences, Weill Cornell (co-mentor, NINR K99 award), 2019 – present
 - Yiye Zhang, PhD, Assistant Professor, Health Informatics Division of Department of Population Health Sciences, Weill Cornell Medical College (NLM K01 grant co-mentor), 2018 – present
 - Ruth Masterson Creber, RN, PhD, Assistant Professor, Health Informatics Division of Department of Healthcare Policy & Research, Weill Cornell Medical College (departmental mentoring committee), 2018 – 2022
 - Marianne Sharko, MD, MS, Instructor, Weill Cornell Medical College Departments of Population Health Sciences and Pediatrics, (K award application mentoring committee) 2017

- present
- Hye-Young (Arian) Jung, PhD, Assistant Professor, Health Policy & Economics Division, Department of Healthcare Policy & Research, Weill Cornell Medical College (NIA K01 award co-mentor), 2017 – 2020
- Nirupa Raghunathan, MD, assistant professor, Memorial Sloan Kettering Cancer Center (co-mentor, Clinical and Translational Sciences KL2 award), 2018 – 2019
- **Mentored pre-doctoral trainees, master’s students in health informatics, Weill Cornell**
 - Stephanie Weiner, 2020-21
 - Katerina Andreadis, 2019-20
 - Minha Park, 2019
 - Lisette Roman, 2016-17
 - Evan Sholle, 2015-16
 - Sana Ali, 2015-17
 - Nathan Young, 2015-16
 - Tanmoy Das Lala, 2014-15
 - Christopher Way, 2014-15
 - Olga Strachna, 2013
- **Mentored postdoctoral trainees completing master’s in health informatics, Weill Cornell**
 - Marianne Sharko, MD, 2016-17
 - Ethan Chan, PharmD, 2019
 - Phillip Say, MD, 2014-15
- **Mentored pre-doctoral trainees, master’s students in biostatistics and data science, Weill Cornell**
 - Tianran Zhang, Haojia Li, Zihan Yang (team capstone), 2020
- **Mentored trainees, doctoral students**
 - Uday Suresh, PhD student, Vanderbilt University Department of Biomedical Informatics, 2022 – present
 - Nana Addo Padi-Adjirackor, Vanderbilt University Department of Health Policy, 2022 - present
- **Mentored non-degree trainees, fellows**
 - Samantha Brenner, MD, QMI fellow, Weill Cornell Medical College, 2012-13
 - Snezana Nena Osorio, MD, QMI fellow, Weill Cornell Medical College, 2011-12
 - Sameer Malhotra, MD, MA, QMI fellow, Weill Cornell Medical College, 2010-12
- **Mentored undergraduate interns**
 - Moria Hulbert (Vanderbilt Biomedical Informatics Summer Program), 2022
 - Kanta Haque (WCM-CUNY Big Data Training Program - NIBIB), 2018
 - Hanif Fudaeel (Travelers Research Summer Program), 2018
 - Tameshwar Tirlokhi (WCM-CUNY Big Data Training Program - NIBIB), 2017
- **Dissertation and thesis committees**
 - Parker Evans, MD, Vanderbilt Department of Biomedical Informatics, 2023 – present

- Leigh Anne Tang, Vanderbilt Department of Biomedical Informatics, 2022 – present
- Lisa V Grossman Liu, Columbia University Department of Biomedical Informatics, 2020
- Michelle Chau, Columbia University Department of Biomedical Informatics, 2020
- Sarah Rosenbaum, Oslo University School of Architecture and Design, 2011
- Delano McFarlane, Columbia University Department of Biomedical Informatics, 2010
- Connie Chan, Columbia University Department of Biomedical Informatics, 2010
- Kerry Fischer, Columbia University Department of Psychology, 2009

- **Invited lectures, colloquia, keynotes**
 - *“Making Numbers Meaningful,”* Keynote address, Health Literacy Annual Conference, (forthcoming) October 30, 2023.
 - *“When Nudges are Better than Decision Support,”* Eminent Mentor Lecture, University of Maryland Baltimore Department of Information Systems, May 4, 2023.
 - *“When Nudges are Better than Decision Support,”* Sam Regenstrief Distinguished Lecture, Regenstrief Institute, Indianapolis, IN, April 12, 2023.
 - *“Making Numbers Meaningful to Patients,”* Division of General Internal Medicine Grand Rounds, Vanderbilt University Medical Center Department of Medicine, March 1, 2023.
 - *“How EHR-Based Nudges Improve Clinical Practice and Clinical Trial Conduct,”* invited colloquium, Department of Biomedical Informatics Research Colloquium, February 16, 2023.
 - *“Making Numbers Meaningful to Genetic Counseling Patients,”* invited lecture, Kaiser Permanente Genetics NCAL Seminars in Genetics series, January 10, 2023.
 - *“Equity Considerations in Telemedicine,”* invited presentation, PCORI Annual Meeting, October 26, 2022
 - *“Making Numbers Meaningful to Readers and Listeners,”* invited presentation, Centers for Disease Control and Prevention Health Literacy Working Group, October 28, 2022.
 - *“Reducing Friction – Behavioral Economics and Human Factors in the Design of Health Information Technology,”* Clinical Informatics Grand Rounds, the Mayo Clinic, January 10, 2022
 - *“Making Numbers Meaningful: Promoting Evidence-based Communication of Numbers in Health,”* keynote address, Center for Effective Health Communication, Nashville, TN, September 20, 2021
 - *“Making Numbers Meaningful: Promoting Evidence-based Communication of Numbers in Health,”* Invited presentation, National Library of Medicine Board of Regents, September 14, 2021.
 - *“Goal-directed Communication of Numbers,”* invited lecture, Health Literacy in Action/Health Literacy Annual Research Conference joint meetings, October 19, 2020.
 - *“Putting Health and Medical Numbers in Context for Your Readers.”* Invited talk, National Association of Science Writers Annual Meeting, October 7, 2020.
 - *“Making Numbers Meaningful: Promoting evidence-based communication of numbers in health.”* Colloquium, University of Washington, Department of Biomedical Informatics and Medical Education, Seattle, WA. April 30, 2020.
 - *“Making Numbers Meaningful: Promoting evidence-based communication of numbers in health.”* Grand rounds, Cornell Center for Health Equity (CHEQ), New York, NY. Dec. 6, 2019.
 - *“Making Numbers Meaningful: Promoting evidence-based communication of numbers in health.”* Grand rounds, Department of Biomedical Informatics, University of Utah, Salt Lake City, UT. Oct. 3, 2019.

- *“Improving health equity through health information technology,”* invited talk, NIH Pathways to Prevention (P2P) Workshop on Achieving Health Equity in Preventive Services. Sponsored by NIMHHD, NCI, NHLBI, NIDDK, and the NIH ODP. Bethesda, MD. June 19-20, 2019.
- *“Stimulating learning with analogies to introduce basic statistical concepts,”* Keynote address, National Science Foundation - Numeracy Infusion for College Educators Conference, City University of New York, June 8, 2018.
- *“Improving decisions via health information technology: An introduction for behavioral economists”* Center for Behavioral Economics and Decision Science, Johnson School of Business, Cornell University, Ithaca, NY, November 14, 2017.
- *“Patient portals – improving accessibility and usefulness.”* National webinar, Agency for Healthcare Research and Quality, March 21, 2017.
- *“Improving decisions via health information technology: Rethinking the architecture of choice.”* Invited grand rounds speaker, Department of Health Management and Policy, University of Michigan, March 14, 2017.
- *“What Health Data Means to People with Chronic Disease,”* Seminar Series on Human Computer-Interaction, Cornell Tech, April 27, 2016.
- *“Turning health literacy upside down,”* Grand Rounds, Department of Pediatrics, Weill Cornell Medical College, April 19, 2016.
- *“The challenges of risk communication with individuals with low literacy,”* Institute of Medicine Health Literacy Roundtable, Washington, DC, March 2, 2016.
- *“The invisible work of personal health information management among people with multiple chronic conditions.”* National webinar presented by the Consumer and Pervasive Health Informatics Working Group of the American Medical Informatics Association, July 20, 2015.
- *“Toward health-literate consumer health information technology,”* Invited talk presented by the Health IT Interest Group of the AcademyHealth Annual Research Meeting, June 13, 2015, Minneapolis, MN.
- *“Visual analogies for teaching statistical concepts,”* Columbia University Mailman School of Public Health, Alumni Address, Department of Biostatistics, April 24, 2015.
- *“You get reminded you’re a sick person: Patient perspectives on the burden of information management in chronic disease,”* Drexel University, Philadelphia, PA, January 30, 2015.
- *“You get reminded you’re a sick person: Patient perspectives on the burden of information management in chronic disease.”* Weill Cornell Medical College, Department of Healthcare Policy and Research seminar series, New York, NY, January 6, 2015.
- *“Using EHR data to link physician behavior to quality outcomes,”* Columbia University Department of Biomedical Informatics, New York, NY, October 16, 2014.
- *“Health literacy, health numeracy, and electronic patient portal.”* Grand rounds, Staten Island Hospital, New York, NY, October 9, 2014
- *“Variability in use of the EHR,”* Healthcare Information and Management Systems Society (HIMSS) Government Relations Roundtable, Washington, DC, September 29, 2014.
- *“Epidemiological bias in quality measurement,”* Department of Healthcare Policy and Research Joint Division Seminar Series, Weill Cornell Medical College, April 1, 2014.
- *“Health literacy and numeracy for pediatricians.”* American Pediatrics Association Annual Meeting for Regions II/III, New York, NY, March 7, 2014.

- *“Literacy, numeracy and patient portals.”* Grand Rounds, Department of Pediatrics, Weill Cornell Medical College, New York, NY, October 29, 2013.
- *“Numeracy, health, and medicine.”* Lehman College of the City University of New York (CUNY) Quantitative Reasoning (QR) Program, Lehman College, New York, NY, October 25, 2013.
- *“Risk communication and patient numeracy.”* Grand Rounds, Department of Obstetrics and Gynecology, Weill Cornell Medical College, New York, NY, October 14, 2013.
- *“Explaining Risks in the Era of Shared Decision-Making: The Role of Numeracy.”* Maternal and Child Health Seminar Series, Harvard School of Public Health, Sept. 30, 2013, Boston, MA.
- *“Evaluation in Digital Health: New Challenges, New Technologies.”* Health 2.0: Digital Technology in Clinical Care. New York Academy of Sciences, March 22, 2013, New York, NY.
- *“Issues and Challenges in the Era of Shared Decision Making: Explaining Risk and Uncertainty.”* Institute of Medicine, Workshop on Literacy and Numeracy, Health Literacy Roundtable, July 18, 2013, Washington, DC.
- *“Electronic Patient Education via Novel Interactive Methods.”* Geisinger Health System, Danville, PA, December 12, 2009.
- *“Novel Graphics for Presenting Health Risks.”* Department of Biomedical Informatics Research Seminar, University of Utah, September 2009.
- *“Interactive Graphics for Presenting Health Risks for Decision-Making.”* Department of Family Medicine and Population Health Grand Rounds, New York University Medical Center, September 17, 2008.

RESEARCH PROGRAM

Currently active

Vanderbilt Biomedical Informatics Training Program

Funder: NIH/National Library of Medicine 5T15LM007450-19

MPI: Jessica Ancker (contact), B Malin, K Unertl, J Warner

Dates: 1/1/2021 - 7/30/2022

Total: \$3,515,716

Dr. Ancker assumed the contact PI role in 2021 for this grant supporting the Vanderbilt Biomedical Informatics Training Program. Launched in 2001, the program offers MS and PhD degrees in biomedical informatics, as well as nondegree postdoctoral and short-term training experiences.

Making Numbers Meaningful: Promoting evidence-based communication of numbers in health

Funder: NIH/National Library of Medicine R01 LM012964

PI: Jessica Ancker

Total: \$1.46 million

Dates: 9/1/2018 – 5/31/2022

Effort: 2.4 CM

Helping patients make sense of numbers and data is increasingly important as patients gain greater and greater access to medical information. We are assembling an interactive evidence-based guide on numbers for writers and developers of patient-facing educational materials. In Aim 1, we are conducting a systematic literature review on effective methods for presenting risks, lab data, and other sorts of numbers to patients. In Aim 2, we are applying user-centered design principles to develop the resulting guidance into an interactive guide. In Aim 3, we are assessing the impact on communication of numbers to the public.

Evaluating the Comparative Effectiveness of Telemedicine in Primary Care: Learning from the COVID-19 Pandemic

Funder: Patient-Centered Outcomes Research Institute (PCORI) COVID-2020C2-10791

PI: Jessica Ancker

Total: \$3.5 million

Dates: 11/1/2020 – 5/31/2023

Effort: 20%

The COVID-19 pandemic disrupted primary care and forced many ambulatory offices to transition to telehealth. In Aim 1, we are studying the transition through interviews and surveys. In Aim 2, we are assessing the impact of telehealth on preventable healthcare utilization and other outcomes, leveraging claims and EHR data.

Can A/B Testing Be Adapted into An Ethical and Useful Approach to Patient-Centered Outcomes Research: Infrastructure for Rapid Accrual in Randomized Trials

Funder: PCORI

PI: James Flory, Memorial Sloan Kettering Cancer Center

Dates: 12/1/2022 – 11/30/2024

Role: Vanderbilt site PI

Effort: 2.0 CM

Our goal is to learn how to leverage information technology to conduct a new type of extremely efficient randomized clinical trial (RCT) that will enroll large samples in a way that is ethically acceptable, statistically valid, and minimally disruptive to routine clinical care. We call this approach a ‘decision architecture randomization trial’ (DART). DART is a specific combination of existing concepts – A/B testing, instrumental variable (IV) analysis, and randomized encouragement designs – that would allow an institution to conduct multiple large rapid RCTs simultaneously with minimal disruption. The DART design would leverage minimally noticeable alterations to health information technologies that are known to influence (or “nudge”) clinical decision making without removing provider autonomy.

GEMRA: Predicting return visits with admission in the emergency department

Funder: National Institute on Aging R01 AG076998

PIs: Peter Steel, Yiye Zhang, Weill Cornell

Dates: 4/1/23 – 3/31/28

Total: \$3.2 million

Role: Vanderbilt site PI

Effort: 1.8 CM

Older adults who within 72 hours experience a return ED visit resulting in hospital admission (RVA) have dramatically higher morbidity and mortality than patients admitted to hospital on their initial ED visit. The goal of this study is to develop and validate a machine learning model (GEMRA) that predicts geriatric RVA and can be used as a ED CDS tool. We will conduct optimization and validation with

retrospective data, conduct prospective validation at three hospitals, and engage stakeholders in the design of a CDS prototype and workflow.

Pending

R18HS029300: Implementation of DDInteract: A shared-decision making tool for anticoagulant Drug-Drug INTERACTIONS (awaiting NOGA)

Funder: AHRQ

PI/PD: Daniel Malone, University of Utah

Role: Co-Investigator

Project/Proposal Start and End Date: TBD

We will leverage implementation science methods and the strengths of our diverse research team to optimize the alignment of DDInteract with local context and workflows to maximize sustainability, effectiveness, and implementation outcomes, including adoption and use of DDInteract as a SDM tool (Aims 1 and 2). Additionally, we propose to conduct a cluster randomized controlled trial to evaluate the impact of DDInteract using pragmatic implementation measures, clinical data available from existing EHRs (Aim 3).

Effort: 1.5 CM

R01: Telehealth Use in Nursing Homes and the Quality of Care for Long-Stay Residents with Alzheimer's Disease and Related Dementias

PI: Arian Jung and Jiani Li, Weill Cornell

Funder: NIA

Total: TBD

Role: Coinvestigator

Dates: Pending

Role Vanderbilt site PI

Effort: 2.0 CM

R01: Patient Online Support to Raise Technology Use Among Limited English Proficient Populations (PORTAL)

Funder: NCI

PI: Lisa Diamond, Memorial Sloan Kettering Cancer Center

Dates: Pending

Role: Coinvestigator

Effort: 1.8 CM

Past support

R01GM125066 National Infrastructure for Standardized and Portable EHR Phenotyping Algorithms

Funder: NIH/National Institute of General Medical Sciences

PI: Jyotishman Pathak

Total: \$2.57 million
Dates: 9/1/2017 – 8/31/2021
Role: Co-Investigator
Effort: 1.2 CM

Identifying and Predicting Patients with Preventable High Utilization Phase II

Funder: PCORNET
PI: Rainu Kaushal
Dates: 9/1/2018 – 8/31/2022
Total: \$1.807 million
Role: Co-I
Effort: 2.4 CM

R25MD011713 City Tech-WCM Big Data Training Program in Biomedical Informatics

Funder: NIH/NIBIB
PI: Jennifer Giannopoulou, City University of New York
Total: \$1.5 million
Dates: 8/1/2017 – 2/28/2021
Role: Coinvestigator
Effort: 5%

Improving Cancer Care Communication: The Development of an Automated Means for Identifying Patient Portal Secure Messages

Funder: American Cancer Society
PI: Lisa Diamond
Total: \$100,000
Dates: 1/1/2020 – 12/31/2020
Role: Weill Cornell Site PI
Effort: 0% (5% in-kind)

Assessing the Relationship between Care Processes and Clinical Decision Support for Order Entry

Funder: Agency for Healthcare Research & Quality
PI: Yiye Zhang
Role: Co-I
Total: \$200,000
Dates: 9/1/2019 to 8/31/2021
Effort: 2%

Develop a payment decision-support tool for payers and providers of early interventions for psychosis

Funder: Robert Wood Johnson Foundation, Systems for Action program
PI: Yuhua Bao
Role: Co-I
Dates: 2019-2021
Total: \$85,000
Percent effort: 3%

ALACRITY for Late- and Mid-Life Mood Disorders

Funder: National Institute of Mental Health P50MH113838-02S1

PI: George Alexopoulos
Dates: 9/30/2019 – 8/30/2021
Role: Sub PI
Percent effort: 0% (3% in-kind)
Total: \$5.732 million

Ambulatory Cancer Care Electronic Symptom Self-Reporting (ACCESS) for Surgical Patients

Funder: Patient-Centered Outcomes Research Institute (PCORI) IHS-1602-34355
PI: Andrea Pusic, Memorial Sloan Kettering Cancer Center
Total: \$1.997 million
Dates: 4/1/2017 – 3/31/2020
Role: Weill Cornell site PI
Effort: 0.48 CM

Developing novel survey questions for consumer use of health IT

Funder: Office of the National Coordinator for Health Information Technology (DHHS)
PI: Jessica Ancker
Total: \$10,000
Dates: January 31 – May 31, 2020
Percent effort: 3%

Addressing origins of the opioid epidemic by improving prescribing for opioid-naive patients

Funder: New York State Health Foundation 17-05047
PI: Jessica Ancker
Total: \$150,000
Dates: 10/1/2017 – 9/30/2019
Effort: 1.2 CM

Refining the Use of Social Determinants of Health for Predictive Modeling

Funder: Dean's Office, Weill Cornell Medicine (intramural competition)
PI: Jessica S Ancker
Total: \$49,601
Dates: 5/1/17 – 4/30/19
Effort: 0.96 CM

Supporting novel payment designs for coordinated specialty care as an early medical and social intervention for first episode psychosis

Funder: Robert Wood Johnson Foundation (74947)
PI: Yuhua Bao
Total: \$90,366
Dates: 11/1/2017-10/31/2018
Role: Co-Investigator
Effort: 0.24 CM

Examining individual health and healthcare utilization patterns at the intersection of transportation, environment and communities

Funder: US Department of Transportation 69A3551747119
PI: Zhang (Oliver) Gao, Cornell University

Total: \$60,000 (WCMC MOU)
Dates: 1/1/2018 – 12/31/2018
Role: Co-I
Effort: 0.12 CM

Improving Healthcare Quality with User-Centered Patient Portals

Funder: Agency for Healthcare Research and Quality/DHHS, K01 HS 021531
PI: Jessica S Ancker
Dates: 9/1/2013 – 6/30/2018
Total: \$762,114
Percent effort: 75%

How do HIE Alerts via the SHIN-NY Support New York’s Performing Providers Systems?

Funder: New York eHealth Collaborative (NYeC) 14-HITEC-01-SOW
PI: Mark A. Unruh
Dates: 5/2017-12/2018
Total: \$190,000
Role: Coinvestigator
Percent effort: 5%

Improving Comprehension of Pediatric Medication Instructions

Funder: Weill Cornell Department of Healthcare Policy & Research intramural pilot grant
PI: Jessica Ancker
Dates: 1/31/16 – 1/31/17
Total: \$10,000
Percent effort: 0% (in-kind 5%)

Novel techniques for patient-centric disease management using automatically inferred behavioral biomarkers & sensor-supported contextual self-report

Funder: National Science Foundation IIS-1344587
PI: Deborah Estrin, Cornell Tech
Dates: 12/1/2013 – 11/30/2017
Total: \$1,976,976
Role: Co-principal investigator
Percent effort: Revised to 0% post award because of receipt of AHRQ K award, which did not permit other concurrent federal funding

Evaluation of NYeC Health Information Exchange Initiatives

Funder: New York eHealth Collaborative
PI: Rainu Kaushal, MD, MPH
Dates: 1/1/2011 – 1/31/2013
Total: \$250,000
Role: Co-Investigator
Percent effort: 10%

Evaluation of the Healthcare Efficiency and Affordability Law for New Yorkers Capital Grant Program (HEAL NY) – Phase 10

Funder: New York State Department of Health C025877

PI: Rainu Kaushal, MD, MPH

Dates: 1/1/2010 – 12/31/2013

Total: \$5,300,000

Role: Co-Investigator

Percent effort: 98% to 70% (varied by year)

Evaluation of MEDLINEplus CONNECT, Part II

Funder: National Library of Medicine

PI: Neil Calman, MD, Institute for Family Health

Dates: 3/1/2013 – 8/30/2013

Total: \$40,000

Role: Cornell PI

Percent effort: 5%

Timely Training of Health Information Technology Workforce

Funder: Office of the National Coordinator For Health Information Technology (HHS)

PI: Herbert Chase, Columbia University

Dates: 4/30/2010 – 4/30/2013

Total: \$840,000

Role: Cornell co-PI

Percent effort: 15%

Evaluation of MEDLINEplus CONNECT

Funder: National Library of Medicine

PI: Neil Calman, Institute for Family Health

Dates: 12/1/2009 – 4/30/2010

Total: \$40,000

Role: Cornell PI

Percent effort: 5%

Evaluation of the Healthcare Efficiency and Affordability Law for New Yorkers Capital Grant Program (HEAL NY) – Phase 5

Funder: New York State Department of Health

PI: Rainu Kaushal

Dates: 9/1/2008 – 8/31/2011

Total: \$5,250,000

Role: Co-Investigator

Percent effort: 98% to 83% (varied by year)

Presidential conference grant

Funder: The Greenwall Foundation

PI: Jessica Ancker and the Council of Science Editors

Date: 2004

Total: \$10,000

Percent effort: 0% (in-kind only)

PUBLICATIONS

- **ORCID:** 0000-0002-3859-9130
- **MyBibliography:** <https://www.ncbi.nlm.nih.gov/myncbi/jessica.ancker.1/bibliography/public/>

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6. Steel PAD, Lu Y, **Ancker JS**, Xu Y, Zhang Y. Outcomes of 72-hour emergency department return visits requiring hospital admission in younger and older adults. [Under review]
7. Woo Baidal J, Wang, Zumwalt G, Greenberg, Cormack, Nichols, Pasco, Nieto, **Ancker JS**, Goldsmith, Meyer D. Observational study of social determinants of health and COVID-19 among patients in New York City. [Manuscript under review; PMC preprint available on Research Square <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7523130/>]

Books, book chapters, invited review articles

1. Lang TA, **Ancker JS**, Lambert R. Numbers, units, mathematical expressions, and statistics. Chapter 12, in *Scientific Style and Format: the CSE Manual for Authors, Editors, and Publishers*. 9th edition, Council of Science Editors, University of Chicago Press, forthcoming 2023.
2. Valdez R, **Ancker JS**, Veinot TC. Provocations for reimagining informatics approaches to health equity. Invited keynote paper, *IMIA Yearbook* 2022.
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9. **Ancker JS**. Communicating risk and uncertainty in the clinical setting. In *Relevance of Health Literacy to Precision Medicine – Workshop in Brief*. French MG, rapporteur for National Academy of Sciences, Engineering and Medicine; Health and Medicine Division; Board on Population Health and Public Health Practice; Roundtable on Health Literacy. [chapter] March 2, 2016. <https://www.nap.edu/catalog/23538/relevance-of-health-literacy-to-precision-medicine-workshop-in-brief>
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Letters to the editor, book reviews, invited editorials

1. Veinot T, **Ancker JS**, Bakken S. Health Informatics and Health Equity: Improving our Reach and Impact. *Journal of the American Medical Informatics Association* 2019; 26(8-9): 689-695. PMID: 31411692.
2. Marcial LH, Richardson JE, Lasater B, Middleton B, Osheroff JA, Kawamoto K, **Ancker JS**, van Leeuwen D, Lomotan EA, Al-Showk S, Blumenfeld BH. The Imperative for Patient-Centered Clinical Decision Support. *eGEMs (Generating Evidence & Methods to improve patient outcomes)* 2018;6(1):12. PMID: 30094284 PMCID: PMC6078148.
3. **Ancker JS**. Delivering patient data to patients themselves. *eGEMs (Generating Evidence & Methods to improve patient outcomes)* 2018; 6(1):16.
4. **Ancker JS**. Capsule commentary on Weeks et al., "Provider perceptions of the electronic health record incentive programs: A survey of eligible professionals who have and have not attested to meaningful use." *Journal of General Internal Medicine*, 30 September 2014. DOI 10.1007/s11606-014-3045-0. PMID: 25266411. PMCID: PMC4284260.
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