

Suzanne Hudson
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EMPLOYMENT

- 2022-present **Associate Professor.** Department of Public Health, East Carolina University
- 2004-22 **Associate Professor.** Department of Biostatistics, East Carolina University
- 1998-04 **Assistant Professor.** Department of Biostatistics, East Carolina University
- 1996-98 **Instructor.** Department of Mathematics, University of Oregon.
- 1990-96 **Graduate Teaching Fellow (Instructor one year).** Department of Mathematics, University of Oregon.
- 1982-88 **Scientific Programmer.** Department of Chemistry, University of Oregon. Developed computer programs for analyzing fluorescence decay experiments, for plotting data, and for performing quantum chemical calculations. Worked for Bruce Hudson.
- 1980-81 **Research Associate.** Department of Chemistry, University of Oregon. Implemented a statistical mechanical study of a model for the coupling between two ordering processes in alkali feldspars. Worked for Robert Mazo.
- 1979-80 **Instructor.** Department of Mathematics, University of Oregon.
- 1977-78 **Research Associate.** Department of Chemistry, Stanford University. Worked on a theory of the glass transition. Worked for Hans Andersen.
- 1972-76 **Lecturer.** Department of Chemistry, Stanford University. Taught thermodynamics and statistical mechanics.

EDUCATION

- 6/96 Ph.D. in Mathematics, University of Oregon specialization in statistics. Research advisor: Paul Vos.
- 6/91 M.S. in Mathematics, University of Oregon.
- 2/72 Ph.D. in Theoretical Chemistry, Massachusetts Institute of Technology, Cambridge, MA. Research advisor: John Ross.
- 9/68 M.S. in Physical Chemistry, California Institute of Technology, Pasadena, CA. Research advisor: Vincent McKoy.
- 6/67 B.S. in Mathematics, Michigan State University, East Lansing, MI.

PUBLICATIONS

Bryan Dunn, Michael Blaj, Jennifer Stahl, James Speicher, Carlos Anciano, Suzanne Hudson, Emily A. Kragel, Mark R. Bowling, "Evaluation of Electromagnetic Navigational Bronchoscopy Using Tomosynthesis-Assisted Visualization, Intraprocedural Positional Correction and Continuous Guidance for Evaluation of Peripheral Pulmonary Nodules", *Journal of Bronchology & Interventional Pulmonology*, doi: 10.1097/LBR.0000000000000839 (2022).

David N. Collier, Aaron Robinson, Siddhartha Mira, Natalie Taft, Alice Raad, Suzanne Hudson, Jessica Webb Young and Suzanne Lazorick, "Tapping Out: Influence of Organoleptic and Perceived Health Risks on Bottled vs. Municipal Tap Water Consumption among Obese, Low Socioeconomic Status Pediatric Patients", *Exposure and Health*, **12**, 179-186 (2020).

Tomefa E. Asempa, Lorita M. Rebellato, Suzanne Hudson, Kimberly Briley, and Angelo Q. Maldonado, "Impact of CYP3A5 genomic variances on clinical outcomes among African American kidney transplant recipients", *Clinical Transplantation*, **32**, DOI: 101111/ctr.13162 (2018).

Fiona Jackson Cook, Jennifer Giordano, Laura Matarese, Suzanne Hudson, "Long Term Bone Health after Roux-en-Y Gastric Bypass: A Pilot Study", *Endocrine Practice*, **23**, 1077-1084 (2017).

Angela Q. Maldonado, Tomefa Asempa, Suzanne Hudson, and Lorita Rebellato, "Prevalence of CYP3A5 Genomic Variances and Their Impact on Tacrolimus Dosing Requirements among Kidney Transplant Recipients in Eastern North Carolina", *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy*, **37**, 1081-1088 (2017).

Craig M. Becker, Joseph G. L. Lee, Suzanne Hudson, Jeanne Hoover, and Donald Civils, "A 14-Year Longitudinal Study of the Impact of Clean Indoor Air Legislation on State Smoking Prevalence, USA, 1997-2010", *Preventive Medicine*, **99**, 63-66 (2017).

Lakshmi Kollara, Jamie L. Perry, and Suzanne Hudson, "Racial Variations in Velopharyngeal and Craniometric Morphology In Children: An Imaging Study", *Journal of Speech, Language, and Hearing Research*, **59**, 27-38 (2016).

William E. Novotny, Glenn D. Harris, Irma Fiordalisi, Suzanne Hudson, and Ronald M. Perkin, "The Impact of Mannitol Administration in Pediatric DKA: A 22 Year Experience", *Journal of Pediatric Critical Care*, **2**, 37-44 (2015).

Robert F. James, Kristin J. Wainwright, Hilal A. Kanaan, Suzanne Hudson, Mark E. Wainwright, Jerome H. Hightower, John J. Delaney, "Analysis of Occupational Radiation Exposure During Angiography Utilizing a New Real Time Radiation Dose Monitoring System", *Journal of NeuroInterventional Surgery, Online First*, **7**, 503-508 (2015).

Hema D. Brazell, C. Sage Claydon, Janet Li, Carol Moore, Nina Dereska, Suzanne Hudson, Steven Swift, "Does Neuromuscular Blockade Affect the Assessment of Pelvic Organ Prolapse?", *International Urogynecology Journal*, **23**, 1599-1603 (2012).

Paul P. Cook, Shemra Rizzo, Michael Gooch, Michelle Jordan, Xiangming Fang and Suzanne Hudson, "Sustained Reduction in Antimicrobial Use and Decrease in Methicillin-Resistant *Staphylococcus aureus* and *Clostridium difficile* Infections Following Implementation of an Electronic Medical Record at a Tertiary-Care Teaching Hospital", *Journal of Antimicrobial Chemotherapy*, **66**, 205-209 (2011).

Mary K. Crozier, Sherrá McMillan, Suzanne Hudson, and Stephanie Jones, "The Eastern North Carolina Opioid Prescribers Project: A Model Continuing Medical Education Workshop", *Journal of Opioid Management*, **6**, 359-364 (2010).

Aphrodit Gouvousis, John Heilmann, Jeanne Golden, Joseph Kalinowski, Suzanne Hudson and Monica Strauss Hough, "Examining the Attitudes and Physiological Responses Preservice Learners Have towards Children with Autism Spectrum Disorders", *Research in Autism Spectrum Disorders*, **4**, 450-456 (2010).

Rachel A. Deal, Monica Strauss Hough, Marianna Walker, Michael Rastatter, Suzanne Hudson, and Kristin A. King, "Post-Traumatic Amnesia Duration after Traumatic Brain Injury: Relationship to Outcome of Pragmatic Skills During Chronic Phases of Recovery", *Journal of Medical Speech-Language Pathology*, **17**, 35-47 (2010).

Mary K. Crozier, Amy E. Blevins, Serra McMillan and Suzanne Hudson, "The Role of an Embedded Librarian in Substance Abuse Counseling Courses: a Pilot Study", *Rehabilitation Counselors & Educators Journal*, **3**, 63-70 (2009).

Jane Painter, Sharon Elliott and Suzanne Hudson, "Falls in Community-Dwelling Adults 50 Years and Older: Prevalence and Contributing Factors", *J. Allied Health*, **38**, 201-207 (2009).

Sharon Elliott, Jane Painter and Suzanne Hudson, "Living Alone and Fall Risk Factors in Community-Dwelling Middle Age and Older Adults", *J. Community Health*, **34**, 301-310 (2009).

Janel Cosby, Deborah Culbertson, Suzanne Hudson, Deborah Bengala, and Rhonda Joyner, "Pediatric Cochlear Implants; Knowledge and Skills of Speech-Language Pathologists", *The ASHA Leader*, **14**, 6-7, 18 (2009).

Paul W. Vos and Suzanne Hudson, "Problems with Binomial Two-sided Tests and the Associated Confidence Intervals", *Australian & New Zealand Journal of Statistics*, **50**, 81-89 (2008).

Paul Vos and Suzanne Hudson, "Evaluation Criteria for Discrete Confidence Intervals: Beyond Coverage and Length", *The American Statistician*, **59**, 137-142 (2005).

J. Cray, R. Allen, A. Stuart, S. Hudson, E. Layman and G. Givens, "Telephone Usage Among Cochlear Implant Recipients", *The Journal of the American Academy of Audiology*, **13**, 200-212 (2004).

Deborah S. Culbertson, Marcella Griggs and Suzanne Hudson, "Ear and Hearing Status in a Multi-Level Retirement Facility", *Geriatric Nursing*, **25**, 93-98 (2004).

Paul David Bell, Suzanne Hudson and Michelle Heinan, "Effect of Teaching/Learning Methodology on Effectiveness of a Web Based Medical Terminology Course?", *International Journal of Instructional Technology and Distance Learning*, **1**, 51-60 (2004).

Paul W. Vos and Suzanne Hudson, "Simulation Study of Conditional, Bootstrap, and *t* Confidence Intervals in Linear Regression", *Communications in Statistics – Simulation and Computation*, **32**, 697-715 (2003).

Stephen J. Vore, William A. Wooden, John F. Bradfield, E. Dale Aycock, Patty L. Vore, Janice F. Lalikos, and Suzanne S. Hudson, "Comparative Healing of Surgical Incisions Created by a Standard "Bovie", The Utah Medical Epitome® Scalpel, and a Bard Parker® Cold Scalpel Blade in a Porcine Model: A Pilot Study", *Annals of Plastic Surgery*, **49**, 635-645 (2002).

Sharon Mangan, Pamela Larsen and Suzanne Hudson, "Overweight Teens at Increased Risk for Weight Gain While Using Depot Medroxyprogesterone Acetate", *Journal of Pediatric & Adolescent Gynecology*, **15**, 79-82 (2002).

Suzanne Hudson, "New Results for a Class of Univariate Distributions", *Communications in Statistics - Theory and Methods*, **31**, 239-247 (2002).

Paul Bell, Suzanne Hudson and Michelle Heinan, "Learning Medical Terminology in a Traditional Classroom Versus the World Wide Web: Is There a Difference in PA Student Performance?", *Perspective on Physician Assistant Education*, **12**, 232-235 (2001).

Paul Bell and Suzanne Hudson, "Equity in the Diagnosis of Chest Pain: Age, Gender, Race, Comorbidity", *The American Journal of Health Behavior* **25**, 60-71 (2001).

Suzanne Hudson and Paul W. Vos, "Marginal Information for Expectation Parameters", *The Canadian Journal of Statistics*. **28**, 875-866 (2000).

R. D. Ludesher, L. Peting, S. Hudson and B. Hudson, "Time-resolved Fluorescence Anisotropy for Systems with Lifetime and Dynamic Heterogeneity", *Biophysical Chemistry* **28**, 59-75 (1987).

Suzanne Hudson and Robert M. Mazo, "The Effects of Aluminum-Silicon Ordering on Phase Separation for a Two-Dimensional Model of Alkali Feldspars", *Phys. Chem. of Minerals* **9**, 9-13 (1983).

Suzanne Hudson and Hans C. Andersen, "The Glass Transition of Atomic Glasses", *J. Chem. Phys.* **69**, 2323-2331 (1978).

Suzanne Hudson and John Ross, "Nonequilibrium Kinetics: Exact and Approximate Solutions", *J. Chem. Stat. Phys.* **14**, 469-481 (1976).

S. Hudson and H. C. Andersen, "Optimized Cluster Expansions for Classical Fluids. IV. Primitive Model Electrolyte Solutions", *J. Chem. Phys.* **60**, 2188 (1974).

J. M. Deutch, S. Hudson, P. J. Orteleva and J. Ross, "Light Scattering from Systems with Chemical Oscillations and Dissipative Structures", *J. Chem. Phys.* **57**, 4327-4332 (1972).

Raymond Kapral, Suzanne Hudson and John Ross, "Nonequilibrium Kinetics: Explicit Time Dependence of Perturbed Distribution Functions and Autocorrelation Expressions", *J. Chem. Phys.* **53**, 4387-4393 (1970).

RESEARCH PRESENTATIONS

Conditioning on the Tail: a Rationale for the Traditional Two-sided Test. Presented at the Joint Statistical Meetings in Denver, CO on August 3, 2008.

Problems with Two-sided Tests and the Associated Confidence Intervals for Discrete Distributions. Presented at the Spring Meetings of the Eastern North American Region of the International Biometric Society in Atlanta, GA on March, 12, 2007.

Evaluation Criteria for Discrete Confidence Intervals: Beyond Coverage and Length. Presented at the Spring Meetings of the Eastern North American Region of the International Biometric Society in Austin, TX on March, 21, 2005.

New Results for a Class of Univariate Distributions. Presented at the Joint Statistical Meetings in Atlanta, GA on August 5, 2001.

Marginal Information for Expectation Parameters. Presented at the Joint Statistical Meetings in Indianapolis, IN on August 16, 2000.

PROFESSIONAL ASSOCIATIONS

Institute of Mathematical Statistics, American Statistical Association