MATTHEW B. KAUFMANN

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Stanford Health Policy, Department of Health Policy, School of Medicine and Center for Health Policy,
Freeman Spogli Institute, Stanford University, Stanford, CA, USA

RESEARCH INTERESTS

Cost-effectiveness analysis, Simulation modeling, End-stage kidney disease, Kidney transplantation policy, Cancer modeling

EDUCATION

PhD — Health Policy (Decision Sciences), **Stanford University** — 2024 (exp)
Advisor: Jeremy D. Goldhaber-Fiebert
Dissertation: Kidney Allocation to Improve Health and Equity

MHS — Health Economics, **Johns Hopkins University Bloomberg School of Public Health** — 2017
Advisor: William V. Padula
Thesis: Cost-Effectiveness Analysis of a School-Based Health Center

BSBA — Finance (Investments), Business Economics, **University of South Carolina** — 2015
Advisor: Colin R. Jones
Honor's Thesis: Rising Student Loan Debt: How the University of South Carolina Can Help Students
Honor's College, *magna cum laude*

PUBLICATIONS AND MANUSCRIPTS

Peer-reviewed Journals

Hoerger, T.J., Hilscher, R., Neuwahl, S., **Kaufmann, M. B.**, Shao, H., Laxy, M., Cheng, Y.J., Benoit, S., Chen, H., Anderson, A. and Craven, T., Yang, W., Cintina,, I., Staimez., L., Zhang, P., the Look AHEAD Research Group. (2023). *A New Type 2 Diabetes Microsimulation Model to Estimate Long-term Health Outcomes, Costs, and Cost-Effectiveness*. Value in Health. https://doi.org/10.1016/j.jval.2023.05.013

Kaufmann, M. B., Tan, J. C., Chertow, G. M., Goldhaber-Fiebert, J. D. (2023). *Deceased Donor Kidney Transplantation for Older Transplant Candidates: A New Microsimulation Model for Determining Risks and Benefits*. Medical Decision Making. https://doi.org/10.1177/0272989X231172169

Krissberg, J., **Kaufmann, M.B.**, Gupta, A., Bendavid, E., Grimm, P., Chaudhuri, A. (2021). *Racial Disparities in Pediatric Kidney Transplantation under the New Kidney Allocation System in the United States*. Clinical Journal of the American Society of Nephrology. https://doi.org/10.2215/CJN.06740521

Lentine, K., Cheungpasitporn, W., Tan, J.C., **Kaufmann, M.**, Caliskan, Y., Bunnapradist, S., Lam, N.N., Schnitzler, M., Axelrod, D.A. (2021). *Immunosuppression Considerations for Older Kidney Transplant Recipients*. Current Transplantation Reports. https://doi.org/10.1007/s40472-021-00321-6

Working Papers

Kaufmann, M.B., Tan, J., Chertow, G., Goldhaber-Fiebert, J.D., *Utilization of suboptimal deceased donor kidneys for among older candidates: a cost-effectiveness analysis*

Technical Reports

Allaire, B., King, G., **Kaufmann, M**., Hilscher, R., Hoerger, T. (2018). *Report on the Model Parameters and Algorithms for the CDC-RTI Microsimulation Model of Diabetes, Cardiovascular Disease, and Nutrition*. Centers for Disease Control and Prevention.

Honeycutt, A., Hutchinson, B., **Kaufmann, M**., Bates, L. (2017). *Cost-Benefit Analysis of Kidney Dialysis Services in Tuvalu: Final Report*. Commonwealth of Australia, Department of Foreign Affairs and Trade.

Conference Presentations

Kaufmann, M.B., Goldhaber-Fiebert, J.D., (2023). *Cost-Effectiveness of Kidney Transplant Allocation Policies on Older Deceased Donor Transplant Candidates.* Presented at the 29th annual AHRQ NRSA Trainees Research Conference, Virtual.

Kaufmann, M.B., Goldhaber-Fiebert, J.D., (2022). *Potential Impact of Deceased Donor Kidney Allocation Policies on Older Transplant Candidates: A Modeling Study*. Presented at the 44th annual conference of the Society for Medical Decision Making, Seattle, WA.

Kaufmann, M.B., Tan, J.C., Chertow, G., Goldhaber-Fiebert, J.D., (2022). *Deceased donor kidney transplantation for older transplant candidates -- a new model for determining risk/benefit.* Presented at the 28th annual AHRQ NRSA Trainees Research Conference, Virtual.

Kaufmann, M.B., Tan, J.C., Chertow, G., Goldhaber-Fiebert, J.D., (2021). *Validation of a Risk Equations for Older Kidney Transplant Recipients.* Presented at the 43rd annual conference of the Society for Medical Decision Making, Virtual.

Kaufmann, M.B., Tan, J.C., Chertow, G., Goldhaber-Fiebert, J.D., (2021). *Risk Equations for Elderly Deceased Donor Kidney Transplant Outcomes.* Presented at the 27th annual AHRQ NRSA Trainees Research Conference, Virtual.

Hoerger, T. J., Hilscher, R., Neuwahl, S., Cheng**,** Y. J., Benoit**,** S.R., Shao, H., Laxy, M., Yang, W., Cintina, I., **Kaufmann, M**., Chen, H., Anderson**,** A.M., Staimez, L.R., Narayan, K.M.V., Zhang, P. (2021). *A New Type 2 Diabetes Microsimulation Model to Estimate Long-Term Health Outcomes, Costs, and Cost-Effectiveness*. Presented at the 81st Scientific Sessions of the American Diabetes Association, Virtual.

Kaufmann, M.B., Goldhaber-Fiebert, J.D., (2020). *Cost-effectiveness of a "wild-card" patient designation policy in deceased donor-kidney transplants.* Presented at the 42nd annual conference of the Society for Medical Decision Making, Virtual.

Hoerger, T. J., **Kaufmann, M**., Neuwahl, S., Shao, H., Chen, H., Laxy, M., Cheng**,** Y. J., Benoit**,** S.R., Anderson**,** A.M., Craven T., Zhang, P. (2020). *Developing New Risk Equations to Predict Diabetes-Related Complications and Mortality in US Adults with Type 2 Diabetes*. Presented at the 80th Scientific Sessions of the American Diabetes Association, Virtual.

Honeycutt, A., Hutchinson, B., **Kaufmann, M**., Bates, L., Soakai, S., Whelan, C. (2018, June). *Cost-minimization analysis of kidney dialysis services in Tuvalu.* Presented at the 7th annual conference of the American Society of Health Economists, Atlanta, GA.

Audio Publication

Kaufmann, M. Contributor. (2021) *Racial Disparities in Pediatric Kidney Transplantation under the new Kidney Allocation System in the United States*. CJASN Podcast.

RESEARCH EXPERIENCE

Mathematical Modeling of *Helicobacter pylori* Transmission in the United States, Graduate Research Assistant 2023-Present
PI: Fernando Alarid-Escudero, Stanford University

- A Cancer Intervention and Surveillance Modeling Network (CISNET) project for the gastric cancer modeling group funded by the National Cancer Institute
- Developed and calibrated a race-specific, age-structured, susceptible-infected-susceptible (SIS) dynamic transmission model of H. pylori infection and treatment in the United States

Cost-Effectiveness of a School-Based Health Center, Graduate Research Assistant 2016-2017
PI: William V. Padula, Johns Hopkins University Bloomberg School of Public Health

- Led a team of four other students in conducting a systematic review and building an economic model
- Developed a Markov model to analyze children with asthma through various health states

TEACHING EXPERIENCE

Experience	Course Title	Years(s)
Teaching Assistant	HRP 392 / BIOMEDIN 432: Analysis of Costs, Risks, and Benefits of Health Care	2022
Teaching Assistant	HRP 252 / MED 252 / BIOMEDIN 251: Outcomes Analysis	2022
Guest Lecturer	HRP 208: Introduction to Concepts and Methods in Health Services and Policy Research II	2022
Instructor	Health Policy Summer Math Boot Camp	2021-23

FELLOWSHIPS, HONORS, & AWARDS

Lee B. Lusted Prize Finalist (Top 10 student abstract in research category), *Society for Medical Decision Making (SMDM)* 2021

2011-2015

National Research Service Award T32 Fellow, *Agency for Health Research and Quality*

Cooper Scholars Award (merit scholarship with annual value of $4,000 + tuition reduction to in-state rate), *University of South Carolina* 2019-Present

PROFESSIONAL SERVICES & AFFILIATIONS

Professional affiliations: Society for Medical Decision Making
Ad-hoc peer reviewer: Medical Decision Making

PROFESSIONAL EXPERIENCE

RTI International, Research Triangle Park, NC 2017-2019
Economist III, Public Health Economics Program

- Managed projects, designed and conducted simulation models, and conducted statistical analyses for projects that covered the following topics: diabetes, childhood pneumonia and diarrhea, asthma, family planning, dialysis, oncology, nutrition, epidemic surveillance, and stroke care

COMPUTER SKILLS

Data Analysis: R, Stata
Simulation/Decision Making: R, TreeAge, Amua, Python
Visualization: Tableau
Other Programming Languages: VBA