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# Karl Timothy Johnson

Assistant Professor

Department of Public Health Leadership and Practice

karl12@live.unc.edu

## **EDUCATION**

### **The University of North Carolina, Chapel Hill, NC – June 2023**

The Gillings School of Global Public Health

PhD Student in the Department of Health Policy and Management

Concentration: Decision Science and Outcomes Research

Dissertation title: Public Health Governance to Advance Public Health 3.0—Interrogating the Strategies and Structures of Local Governmental Health Departments to address the Social Determinants of Health in North Carolina and across the Country ([see here](#))

Committee Members: Dr. Kristen Hassmiller Lich (Chair), Dr. John Wiesman, Kristi A. Nickodem, Esq., Dr. Todd Jensen, Dr. Dorothy Cilenti

### **Johns Hopkins University, Baltimore, MD – May 2018**

Bachelor of Arts: Economics

*Honors in Humanistic Studies*

## **PROFESSIONAL EXPERIENCE**

### **Department of Public Health Leadership and Practice**

#### **UNC Gillings School of Public Health**

Assistant Professor, 11/2023 --

#### **Granville Vance Public Health**

Behavioral Health Integration Specialist, 08/2023 –

#### **Better Veteran Health Communities**

Research Assistant — 08/2022 – 12/2022

#### **North Carolina Department of Health and Human Services, Office of Rural Health**

Research Consultant, 06/2021 – 04/2022

#### **North Carolina Association of Local Health Departments**

Consultant, 06/2020 – 10/2022

#### **Community Based Workforce Alliance**

Consultant, 06/2020 – 06/2022

#### **Harvard Medical School, Health Equity Research Lab**

Research Assistant, 06/2019 – 04/2022

## HONORS

### Awards

- The Francine and Harry Weinberger Award for Excellence, UNC Gillings Department of Health Policy and Management, Spring 2023

### Fellowships

- Adam Smith Fellowship, The Mercatus Center at George Mason University, Fall 2021
- Adam Smith Applied Fellowship, The Mercatus Center, George Mason University, Fall 2022
- Junior Fellowship, Institute for Humane Studies, George Mason University, Summer 2023
- Medical Fellow, Global Public Service Academies, Summer 2018 – Summer 2019
- Affiliated Graduate Student, Philosophy Politics Economics Program at UNC, Fall 2021

## PUBLICATIONS

1. **Johnson, K.**, Biddell, C. B., Gora Combs, K., Wiesman, J., Valdes Lupi, M., & Hassmiller Lich, K. (2023). Local Health Department Values and Organizational Authorities Guiding Cross-Sector Work During COVID-19. *Health Promotion Practice*, 15248399231192989.
2. **Johnson, K.**, Biddell, C. B., Hecht, H. K., Lich, K. H., Swann, J., Delamater, P., ... & Patel, M. D. (2022). Organizational decision-making during COVID-19: A qualitative analysis of the organizational decision-making system in the United States during COVID-19. *Journal of Contingencies and Crisis Management*.
3. Biddell, C. B., **Johnson, K. T.**, Patel, M. D., Smith, R. L., Hecht, H. K., Swann, J. L., ... & Hassmiller Lich, K. (2022). Cross-sector decision landscape in response to COVID-19: a qualitative network mapping analysis of North Carolina decision-makers. *Frontiers in Public Health*, 10.
4. **Johnson, Karl**, Caitlin B. Biddell, Kristen Hassmiller Lich, Julie Swann, Paul Delamater, Maria Mayorga, Julie Ivy, Raymond L. Smith, and Mehul D. Patel. "Use of Modeling to Inform Decision Making in North Carolina during the COVID-19 Pandemic: A Qualitative Study." *MDM Policy & Practice* 7, no. 2 (2022): 23814683221116362.
5. Rosenstrom, Erik T., Jessica Mele, Julie S. Ivy, Maria E. Mayorga, Mehul D. Patel, Kristen Hassmiller Lich, **Karl Johnson** et al. "Can vaccine prioritization reduce disparities in COVID-19 burden for historically marginalized populations?." *PNAS Nexus* 1, no. 1 (2022): pgab004.
6. **Johnson, K.**, Saylor, K. W., Guynn, I., Hicklin, K., Berg, J. S., & Lich, K. H. (2022). A systematic review of the methodological quality of economic evaluations in genetic screening and testing for monogenic disorders. *Genetics in Medicine*, 24(2), 262-288.
7. **Karl Johnson**, Elizabeth Uhlig, Hojoon Sohn, David Dowdy. (2021) Evaluation of impact and cost-effectiveness of innovative Active Case Finding strategies for tuberculosis case detection in the remote communities in Cambodia. *PloS One*.
8. **Johnson, K.**, Tepper, M., Leff, H. S., Mullin, B. O., Cook, B. L., & Progovac, A. M. (2021). Assessing the Long-Term Effectiveness of a Behavioral Health Home for Adults With Bipolar and Psychotic Disorders. *Psychiatric Services*, appi-ps.

9. Jo, Y., Kagujje, M., **Johnson, K.**, Dowdy, D., Hangoma, P., Chiliukutu, L., ... & Sohn, H. (2021). Costs and cost-effectiveness of a comprehensive tuberculosis case finding strategy in Zambia. *PloS one*, 16(9), e0256531.
10. Patel, M.D., Rosenstrom, E., Ivy, J.S., Mayorga, M.E., Keskinocak, P., Boyce, R.M., Lich, K.H., Smith, R.L., **Johnson, K.T.**, Delamater, P.L. and Swann, J.L., 2021. Association of Simulated COVID-19 Vaccination and Nonpharmaceutical Interventions With Infections, Hospitalizations, and Mortality. *JAMA network open*, 4(6), pp.e2110782-e2110782.
11. **Johnson, K. T.**, Palakshappa, D., Basu, S., Seligman, H., & Berkowitz, S. A. (2021). Examining the bidirectional relationship between food insecurity and healthcare spending. *Health Services Research*.
  - “Top Cited Article” in *Health Services Research (Among work published in an issue between 1 January 2021 – 15 December 2022.)*
12. Basu, S., **Johnson, K. T.**, & Berkowitz, S. A. (2020). Use of Machine Learning Approaches in Clinical Epidemiological Research of Diabetes. *Current Diabetes Reports*, 20(12), 1-19.
13. Ferguson, O., Jo, Y., Pennington, J., **Johnson, K.**, Chaisson, R. E., Churchyard, G., & Dowdy, D. (2020). Cost-effectiveness of one month of daily isoniazid and rifapentine versus three months of weekly isoniazid and rifapentine for prevention of tuberculosis among people receiving antiretroviral therapy in Uganda. *Journal of the International AIDS Society*, 23(10), e25623.
14. Bell, O. N., Hole, M. K., **Johnson, K.**, Marcil, L. E., Solomon, B. S., & Schickedanz, A. (2019). Medical-Financial Partnerships: Cross-Sector Collaborations Between Medical and Financial Services to Improve Health. *Academic Pediatrics*.
15. Salvatore, P., **Johnson, K.**, Vojnov, L., Doherty, M., & Dowdy, D. (2019). Clinical consequences of using an indeterminate range for early infant diagnosis of HIV: a decision model. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 82(3), 287-296.
16. Braxton, A. M., Chalmin, A. L., Najarro, K. M., Brockhurst, J. **K.**, **Johnson, K. T.**, Lyons, C. E., ... & Guerrero-Martin, S. M. (2019). Platelet-endothelial associations may promote cytomegalovirus replication in the salivary gland in mice. *Platelets*, 1-9.
17. **Johnson, K. T.**, Churchyard, G. J., Sohn, H., & Dowdy, D. W. (2018). Cost-effectiveness of preventive therapy for tuberculosis with isoniazid and rifapentine versus isoniazid alone in high-burden settings. *Clinical Infectious Diseases*, 30.
18. Quinn, C., **Johnson, K.**, Raney, C., Baker, R. J., Topel, K., Tschudy, M. M., ... & Solomon, B. S. (2018). “In the clinic they know us”: Preferences for clinic-based financial and employment services in urban pediatric primary care. *Academic pediatrics*.
19. Jaganath, D., **Johnson, K.**, Tschudy, M. M., Topel, K., Stackhouse, B., & Solomon, B. S. (2018). Desirability of Clinic-Based Financial Services in Urban Pediatric Primary Care. *The Journal of pediatrics*.

## **REFEREED OTHER PRODUCTS OF SCHOLARSHIP**

### Presentations

- **Karl T Johnson**. “From Sounding Board to Local Public Health Champion: Becoming a Strong Board of Health across North Carolina” (Annual meeting for the Association of North Carolina Boards of Health, September 2023)
- **Karl T Johnson**, Caitlin B. Biddell, Katherine Gora Combs, John Weisman, Monica Valdes Lupi, Kristen Hassmiller Lich. “Local Health Department Values and Organizational Authorities

Guiding Public Health System Strengthening during COVID-19” (AcademyHealth, June 2022; NACCHO 360, July 2022)

- Caitlin Biddell, **Karl Johnson**, Mehul Patel, Julie Swann, Kristen Hassmiller Lich. “Bringing Communities to the Table: The Translation of State Guidance into Local Decision-Making during COVID-19” (State-University Partnership Learning Network Adjunct Meeting “Research and Relevance in State Health Policy”, September 2021)
- **Karl Johnson**, Caitlin Biddell, Mehul Patel, Julie Swann, Kristen Hassmiller Lich. “Co-design of Decision-Support Model Analysis and Communication with Local Public Health Decision Makers during COVID-19” (State-University Partnership Learning Network Adjunct Meeting “Research and Relevance in State Health Policy, September 2021)

## **TEACHING ACTIVITIES**

### Adjust Teaching Positions

- PUBH 785.001: Community Engagement for Governance (3 credits), Fall 2023 – MPH Students

### Teaching Assistantships

- HPM 785: Advanced Decision Modeling (3 credits), Spring 2022 – PhD Students
- HPM 966: Systems Thinking & Collective Impact (3 credits), Spring 2022 – PhD Students
- HPM 890.013 Systems Thinking for Collective Impact in Health (3 credits), Fall 2021 – DrPH Students

## **CONTRACTS & GRANTS**

- Local Government Federal Credit Union Diversity Equity Inclusion fund, UNC School of Government, Fall 2022
- Independent Research Grant, The Mercatus Center, George Mason University, Fall 2022
- Publication Accelerator Grant, Institute for Humane Studies, George Mason University, Fall 2022
- Cecil G. Sheps Center AHRQ/NRSA predoctoral training program in health services research, Fall 2022 (Finalist)
- Health Policy and Management Departmental Travel Award, Summer 2022

## **SERVICE**

- UNC Health Policy and Management Executive Advisory Committee, Student Representative, Fall 2022 – Spring 2023
- UNC Health Policy and Management Chair Search Committee, Student Representative, Fall 2022 – Spring 2023
- UNC Gillings Research Strategic Planning Task Force, student representative, Spring 2023-Fall 2023
- NACCHO Student Chapter at UNC-CH, Co-Faculty Advisor, Fall 2023—