

**Julia E. Szymczak**

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**CURRENT EMPLOYMENT**

2016- Assistant Professor of Epidemiology  
Department of Biostatistics, Epidemiology and Informatics (DBEI)  
Department of Medicine, Division of Infectious Diseases (Secondary)  
**University of Pennsylvania Perelman School of Medicine**

**EDUCATION**

2013 PhD in Sociology  
2008 MA in Sociology  
**University of Pennsylvania** Philadelphia, PA  
  
2004 BA in Sociology  
**Brandeis University** Waltham, MA

**PROFESSIONAL EXPERIENCE**

2020- Associate Editor, *BMJ Quality and Safety*  
  
2018- Member, Graduate Group in Epidemiology and Biostatistics (GGEB)  
2017- Affiliated Faculty, Center for Health Incentives and Behavioral Economics  
2016- Senior Scholar, Center for Clinical Epidemiology and Biostatistics (CCEB)  
**University of Pennsylvania Perelman School of Medicine**  
  
2021- Associate Director, Social Science Methods in Healthcare Delivery  
2016- Affiliated Faculty, Center for Pediatric Clinical Effectiveness (CPCE)  
2013-2016 Postdoctoral Fellow, Division of Infectious Diseases  
**The Children's Hospital of Philadelphia**  
  
2014 Fellow, NIH Training Institute for Dissemination and Implementation Research  
in Health (TIDIRH)

**HONORS AND AWARDS**

2021 Leonard Berwick Memorial Basic Science Teaching Award Nominee, DBEI  
2021 SHEA Research Scholar Award  
2020 Faculty Teaching Award for EPID534, GGEB  
2019 Excellence in Teaching Epidemiology Award, CCEB  
2016 Blaxter New Writer Prize, High Commendation, *Sociology of Health & Illness*

- 2014 Roberta G. Simmons Outstanding Dissertation Award (sole Honorable Mention), American Sociological Association, Medical Sociology Section
- 2012 Fellow, 4th Annual US-UK Medical Sociology Conference, American Sociological Association
- 2010 Gertrude and Otto Pollak Research Prize, University of Pennsylvania
- 2010 Pew Presidential Prize, University of Pennsylvania
- 2007 NSF Graduate Research Fellowship, Honorable Mention
- 2006 Benjamin Franklin Fellow, University of Pennsylvania
- 2004 Phi Beta Kappa, Brandeis University

PEER-REVIEWED PUBLICATIONS [former or current trainees]

- 40. Wang R, Degnan K.O., Luther V.P., **Szymczak J.E.**, Goren E.N., Logan A., Shnekendorf R., Hamilton K.W. (2021) Development of a Multifaceted Antimicrobial Stewardship Curriculum for Undergraduate Medical Education: The Antibiotic Stewardship, Safety, Utilization, Resistance, and Evaluation (ASSURE) Elective. *Open Forum Infectious Diseases*. June;8(6): ofab231. (Epub ahead of print)
- 39. Walter J.K., Hill D.L., Schall T.E., **Szymczak J.E.**, Parikh S., DiDomenico S., Carrol K.W., Nye R.T., Feudtner C. (2021) An interprofessional team-based intervention to address barriers to initiating palliative care in pediatric oncology: a mixed-methods evaluation of feasibility, acceptability and impact. *J Pain Symptom Manage*. Jun 18:S0885-3924(21)00385-7. (Epub ahead of print)
- 38. **Szymczak J.E.** & Trautner B.W. (2021) Support to scale antibiotic stewardship in long-term care homes: how much is enough? *BMJ Qual Saf*. May 31:bmjqs-2021-013073. (Epub ahead of print)
- 37. **Szymczak J.E.** (2021) Structural Factors, Power, and the Physician Sex Pay Gap. *JAMA Pediatr*. May 17. (Epub ahead of print)
- 36. **Szymczak J.E.** (2021) Mandates are not magic bullets: Leveraging context, meaning and relationships to increase meaningful use of prescription monitoring programs. *Pharmacoepidemiol Drug Saf*. Jul;30(7):979-981.
- 35. Lavigne S.H., Louis S., Rankin S.C., Zaoutis T.E., **Szymczak J.E.** (2021) How companion animal veterinarians in the United States perceive financial constraints on antibiotic decision-making. *Vet Rec*. Jun;188(12):e62.
- 34. **Szymczak, J. E.**, Keller, S. C. & Linder, J. A. (2021). 'But I never get better without an antibiotic!' Antibiotic appeals and how to respond. *Mayo Clin. Proc*. Mar;96(3):543-546.
- 33. Triantafyllou, V., Kopsidas, I., Kyriakousi, A., Zaoutis, T. E. & **Szymczak, J. E.** (2020). Influence of national culture and context on healthcare workers' perceptions of infection prevention in Greek neonatal intensive care units. *J Hosp Infect*, 104, 552-559.
- 32. Thampi, N., **Szymczak, J. E.** & Leis, J. A. (2020). Applying behavioral frameworks to antimicrobial stewardship. *Infect Control Hosp Epidemiol*, 41, 628-630.
- 31. **Szymczak, J. E.**, Muller, B. M., Shakamuri, N. S., Hamilton, K. W., Gerber, J. S., Laguio-Vila, M., Dumyati, G. K., Fridkin, S. K., Guh, A. Y., Reddy, S. C. & Lautenbach, E. (2020). Prescriber

- perceptions of fluoroquinolones, extended-spectrum cephalosporins, and *Clostridioides difficile* infection. *Infect Control Hosp Epidemiol*, 41, 914-920.
30. Saine, M. E., **Szymczak, J. E.**, Moore, T. M., Bamford, L. P., Barg, F. K., Schnittker, J., Holmes, J. H., Mitra, N. & Lo Re, V., 3rd (2020). Determinants of stigma among patients with hepatitis C virus infection. *J Viral Hepat*, 27, 1179-1189.
  29. Saine, M. E., Moore, T. M., **Szymczak, J. E.**, Bamford, L. P., Barg, F. K., Mitra, N., Schnittker, J., Holmes, J. H. & Lo Re, V., 3rd (2020). Validation of a modified Berger HIV stigma scale for use among patients with hepatitis C virus (HCV) infection. *PLoS One*, 15, e0228471.
  28. Redding, L. E., Muller, B. M. & **Szymczak, J. E.** (2020). Small and Large Animal Veterinarian Perceptions of Antimicrobial Use Metrics for Hospital-Based Stewardship in the United States. *Front Vet Sci*, 7, 582.
  27. Maliha, G., Nepps, M. E., Tamma, P. D., Dodds Ashley, E., **Szymczak, J. E.**, Kolesar, E. & Hamilton, K. W. (2020). Legal implications of antibiotic stewardship programs. *Infect Control Hosp Epidemiol*, 41, 757-764.
  26. Kohut, M. R., Keller, S. C., Linder, J. A., Tamma, P. D., Cosgrove, S. E., Speck, K., Ahn, R., Dullabh, P., Miller, M. A. & **Szymczak, J. E.** (2020). The inconvincible patient: how clinicians perceive demand for antibiotics in the outpatient setting. *Fam Pract*, 37, 276-282.
  25. Kim, C., **Szymczak, J. E.**, Schnellinger, E. M., Herman, D. J., Kennedy, L. A., Talati, N. J. & Hamilton, K. W. (2020). Survey to determine the relative importance of clinical factors used to make empiric antibiotic decisions. *Infect Control Hosp Epidemiol*, 1-3.
  24. Hill, D. L., Walter, J. K., **Szymczak, J. E.**, Didomenico, C., Parikh, S. & Feudtner, C. (2020). Seven Types of Uncertainty When Clinicians Care for Pediatric Patients With Advanced Cancer. *J Pain Symptom Manage*, 59, 86-94.
  23. Cowden, C., Mwananyanda, L., Hamer, D. H., Coffin, S. E., Kapasa, M. L., Machona, S. & **Szymczak, J. E.** (2020). Healthcare worker perceptions of the implementation context surrounding an infection prevention intervention in a Zambian neonatal intensive care unit. *BMC Pediatr*, 20, 432.
  22. Clapp, J. T., Diraviam, S. P., Lane-Fall, M. B., **Szymczak, J. E.**, Muralidharan, M., Chung, J. J., Gutsche, J. T., Curley, M. a. Q., Berns, J. S. & Fleisher, L. A. (2020). Nephrology in the Academic Intensive Care Unit: A Qualitative Study of Interdisciplinary Collaboration. *Am J Kidney Dis*, 75, 61-71.
  21. Vaughn, V. M., **Szymczak, J. E.**, Newton, D. W. & Fakhri, M. G. (2019). Addressing the Overuse of Cultures to Optimize Patient Care. *Ann Intern Med*, 171, S73-S74.
  20. **Szymczak, J. E.**, Kitt, E., Hayes, M., Chiotos, K., Coffin, S. E., Schriver, E. R., Patton, A. M., Metjian, T. A. & Gerber, J. S. (2019). Threatened efficiency not autonomy: Prescriber perceptions of an established pediatric antimicrobial stewardship program. *Infect Control Hosp Epidemiol*, 40, 522-527.
  19. **Szymczak, J. E.** (2019). Are Surgeons Different? The Case for Bespoke Antimicrobial Stewardship. *Clin Infect Dis*, 69, 21-23.

18. Morris, A. M., Calderwood, M. S., Fridkin, S. K., Livorsi, D. J., Mcgregor, J. C., Mody, L., Moehring, R. W., Pakyz, A. L., Stenehjem, E., **Szymczak, J. E.** & Tamma, P. D. (2019). Research needs in antibiotic stewardship. *Infect Control Hosp Epidemiol*, 40, 1334-1343.
17. Gerber, J. S., Ross, R. K., **Szymczak, J. E.**, Xiao, R., Localio, A. R., Grundmeier, R. W., Rettig, S. L., Tetzner, E., Canning, D. A. & Coffin, S. E. (2019). Infections after pediatric ambulatory surgery: Incidence and risk factors. *Infect Control Hosp Epidemiol*, 40, 150-157.
16. **Szymczak, J. E.**, Schall, T., Hill, D. L., Walter, J. K., Parikh, S., Didomenico, C. & Feudtner, C. (2018). Pediatric Oncology Providers' Perceptions of a Palliative Care Service: The Influence of Emotional Esteem and Emotional Labor. *J Pain Symptom Manage*, 55, 1260-1268.
15. **Szymczak, J. E.**, Lee, G., Klieger, S. B., Woods, C., Creech, C. B., Gilsdorf, J. R., Dennehy, P. & Zaoutis, T. (2018). Multifaceted but Invisible: Perceptions of the Value of a Pediatric Cognitive Specialty. *Hosp Pediatr*, 8, 385-393.
14. **Szymczak, J. E.**, Klieger, S. B., Miller, M., Fiks, A. G. & Gerber, J. S. (2018). What Parents Think About the Risks and Benefits of Antibiotics for Their Child's Acute Respiratory Tract Infection. *J Pediatric Infect Dis Soc*, 7, 303-309.
13. **Szymczak, J. E.**, Getz, K. D., Madding, R., Fisher, B., Raetz, E., Hijjiya, N., Gramatges, M. M., Henry, M., Mian, A., Arnold, S. D., Aftandilian, C., Collier, A. B. & Aplenc, R. (2018). Identifying patient- and family-centered outcomes relevant to inpatient versus at-home management of neutropenia in children with acute myeloid leukemia. *Pediatr Blood Cancer*, 65.
12. **Szymczak, J. E.** (2018). Beyond barriers and facilitators: the central role of practical knowledge and informal networks in implementing infection prevention interventions. *BMJ Qual Saf*, 27, 763-765.
11. Keller, S. C., Tamma, P. D., Cosgrove, S. E., Miller, M. A., Sateia, H., **Szymczak, J.E.**, Gurses, A. P. & Linder, J. A. (2018). Ambulatory Antibiotic Stewardship through a Human Factors Engineering Approach: A Systematic Review. *J Am Board Fam Med*, 31, 417-430.
10. Hill, D. L., Walter, J. K., Casas, J. A., Didomenico, C., **Szymczak, J. E.** & Feudtner, C. (2018). The codesign of an interdisciplinary team-based intervention regarding initiating palliative care in pediatric oncology. *Support Care Cancer*, 26, 3249-3256.
9. Gaw, C. E., Hamilton, K. W., Gerber, J. S. & **Szymczak, J. E.** (2018). Physician Perceptions Regarding Antimicrobial Use in End-of-Life Care. *Infect Control Hosp Epidemiol*, 39, 383-390.
8. Elango, S., **Szymczak, J. E.**, Bennett, I. M., Beidas, R. S. & Werner, R. M. (2018). Changing Antibiotic Prescribing in a Primary Care Network: The Role of Readiness to Change and Group Dynamics in Success. *Am J Med Qual*, 33, 154-161.
7. Gerber, J. S., Ross, R. K., Bryan, M., Localio, A. R., **Szymczak, J. E.**, Wasserman, R., Barkman, D., Odeniyi, F., Conaboy, K., Bell, L., Zaoutis, T. E. & Fiks, A. G. (2017). Association of Broad- vs Narrow-Spectrum Antibiotics With Treatment Failure, Adverse Events, and Quality of Life in Children With Acute Respiratory Tract Infections. *JAMA*, 318, 2325-2336.

6. **Szymczak, J. E.** (2016). Infections and interaction rituals in the organisation: clinician accounts of speaking up or remaining silent in the face of threats to patient safety. *Sociol Health Illn*, 38, 325-39.
5. **Szymczak, J. E.**, Smathers, S., Hoegg, C., Klieger, S., Coffin, S. E. & Sammons, J. S. (2015). Reasons Why Physicians and Advanced Practice Clinicians Work While Sick: A Mixed-Methods Analysis. *JAMA Pediatr*, 169, 815-21.
4. **Szymczak, J. E.**, Feemster, K. A., Zaoutis, T. E. & Gerber, J. S. (2014). Pediatrician perceptions of an outpatient antimicrobial stewardship intervention. *Infect Control Hosp Epidemiol*, 35 Suppl 3, S69-78.
3. **Szymczak, J. E.** (2014). Seeing risk and allocating responsibility: talk of culture and its consequences on the work of patient safety. *Soc Sci Med*, 120, 252-9.
2. **Szymczak, J. E.** & Bosk, C. L. (2012). Training for efficiency: work, time, and systems-based practice in medical residency. *J Health Soc Behav*, 53, 344-58.
1. **Szymczak, J. E.**, Brooks, J. V., Volpp, K. G. & Bosk, C. L. (2010). To leave or to lie? Are concerns about a shift-work mentality and eroding professionalism as a result of duty-hour rules justified? *Milbank Q*, 88, 350-81.

#### BOOK CHAPTERS

3. **Szymczak, J. E.** (2020). Quality Improvement for Healthcare Epidemiology: Creating a Culture of Excellence. pgs 97-105 *In*: Weber, D. & Talbot, T. (eds.) *Mayhall's Hospital Epidemiology and Infection Prevention*. 5 ed.: Wolters Kluwer.
2. **Szymczak, J. E.** & Newland, J. (2018). The Social Determinants of Antimicrobial Prescribing: Implications for Stewardship. *In*: Barlam, T. F., Neuhauser, M. M., Trivedi, K. K. & Tamma, P. D. (eds.) *Society for Healthcare Epidemiology of America: Practical Implementation of an Antimicrobial Stewardship Program*. Cambridge University Press.
1. **Szymczak, J. E.** & Conrad, P. (2006). Medicalizing the Aging Male Body: Andropause and Baldness. *In*: Rosenfeld, D. & Faircloth, C. (eds.) *Medicalized Masculinities*. Philadelphia, PA: Temple University Press.

#### ALTERNATIVE MEDIA

- 2020 "Unsolicited Advice: An Honest Discussion of Burnout in Stewardship" Society for Infectious Diseases Pharmacists Breakpoints Podcast, Episode 32 (with Emily Heil, PharmD; Zahra Kassamali Escobar, PharmD; Erin McCreary, PharmD)
- 2019 "Threatened Efficiency Not Autonomy" Infection Control and Hospital Epidemiology Podcast Series, Episode 3
- 2017 "Sociobehavioral Factors in Antimicrobial Prescribing and Stewardship Initiatives" Society for Healthcare Epidemiology of America (SHEA) Facebook Live Event (with Preeti Malani, MD)
- 2017 "Focusing on Diagnostic Stewardship: Changing the Culture of Culturing" SHEA Podcast Series, Episode 2 (with Jim Lewis, PharmD)
- 2017 "Communication and Outpatient Antibiotic Use" Pediatric UPDATE CME Series (with Rita Mangione-Smith, MD, MPH)

## GRANT SUPPORT

### Current Research Support

2021-2026	<b>Southeastern Pennsylvania Adult and Pediatric Prevention Epicenter Network (U54-CK000485)</b> Source: CDC PI: Lautenbach, E (Penn) Role: Co-Investigator, Reducing Antimicrobial Prescribing in Dialysis (RAPID)
2021	<b>Burnout in Antimicrobial Stewardship</b> SHEA Research Scholar Award PI: Szymczak, J.E.
2020-2021	<b>Procalcitonin to Reduce Antibiotic Use in Pediatric Pneumonia(P-RAPP) (R34-HL153474)</b> Source: NIH/NHLBI PI: Florin, T (Northwestern) Role: Co-Investigator
2020-2021	<b>COVID-19 Supplement to Southeastern Pennsylvania Adult and Pediatric Prevention Epicenter Network (U54-CK000485)</b> Source: CDC PI: Lautenbach, E (Penn) Role: Project Lead, "Identifying Healthcare Personnel Mental Models of COVID-19 Exposure Risk"
2020-2021	<b>COVID-19 Enhancement to BIOS Study: Adapting Antibiotic Stewardship Interventions to Care Delivery Through Telemedicine</b> Source: PCORI PI: Gerber, J/Fiks, A (CHOP) Role: Co-Investigator/Project Lead
2020-2024	<b>Broad Implementation of Outpatient Antibiotic Stewardship (BIOS) Study</b> Source: PCORI PI: Gerber, J/Fiks, A (CHOP) Role: Co-Investigator
2019-2024	<b>Implementing a Discharge Stewardship Bundle to Improve Antibiotic Use at Transition from Hospital to Home (R01-HS27428)</b> Source: AHRQ PI: Gerber, J (CHOP) Role: Co-Investigator
2018-2023	<b>Behavioral Economic Approaches to Increase Physical Activity among Patients with Elevated Risk for Cardiovascular Disease (R33-HL141440)</b> Source: NIH/NHLBI PI: Patel, M/Volpp, K (Penn) Role: Co-Investigator

2017-2022            **Benefits of ICU Admission for Patients with Acute Respiratory Failure or Sepsis: A Mixed-Methods Study Across 26 Hospitals (R01-HL136719)**  
Source: NIH/NHLBI  
PI: Halpern, S (Penn)  
Role: Co-Investigator

Completed Research Support

2020-2021            **Managing Institutional Conflicts of interest in Technology Transfer: A Qualitative Analyses of Academic Research Institution Policies and Best Practices (UL1-TR001878-Supplement )**  
Source: NIH  
PI: FitzGerald, G/McCoy, M (Penn)  
Role: Co-Investigator

2019-2020            **Veterinarian Perspectives on Antimicrobial Stewardship Metrics**  
Source: University Research Foundation (Penn)  
PI: Redding, L/Szymczak, J  
Role: Dual Principal Investigator

2018-2019            **A Novel Metric for Benchmarking Antibiotic Use to Inform Outpatient Stewardship**  
Source: CDC BAA FY2017-OADS-01  
PI: Gerber, J (CHOP)  
Role: Co-Investigator

2018-2019            **Primary Care Physician Perceptions of Medicaid Work Requirements: A Mixed-Methods Study (76037)**  
Source: Robert Wood Johnson Foundation  
PI: Schmidt, H (Penn)  
Role: Co-Investigator

2016-2020            **Southeastern Pennsylvania Adult and Pediatric Prevention Epicenter Network (U54-CK000485)**  
Source: CDC  
PI: Lautenbach, E (Penn)  
Role: Project Lead, "A Multisite Qualitative Study to Identify Meaningful Communication Strategies for Delivering Antimicrobial Stewardship Recommendations and Decisions in U.S. Hospitals"  
Role: Co-Investigator, "Improving Methods for Monitoring Terminal Room Cleaning to Reduce Healthcare Associated Infections"

2016-2018            **Targeted Reduction of Antimicrobials for Prevention of Clostridium Difficile Infection**  
Source: CDC BAA2016-N-17812  
PI: Lautenbach, E (Penn)  
Role: Co-Investigator

2015-2019            **Home or Away from Home: Comparing Clinician and Patient/Family-Centered Outcomes Relevant to the Care of Pediatric Acute Myeloid Leukemia (AML) During Periods of Neutropenia**

Source: PCORI  
PI: Aplenc, R (CHOP)  
Role: Co-Investigator

2015-2017 **Pediatric Cancer Interdisciplinary Team Training for Regoaling CARE Discussions** (1R21CA198049-01)

Source: NIH/NCI  
PI: Feudtner, C (CHOP)  
Role: Co-Investigator

2015-2016 **Southeastern Pennsylvania Adult and Pediatric Prevention Epicenter Network** (3U54CK000163-05S1)

Source: CDC  
PI: Lautenbach, E (Penn)  
Role: Co-Investigator, Project Lead

2013-2017 **Comparative Effectiveness of Broad vs. Narrow Spectrum Antibiotics for Acute Respiratory Tract Infections in Children**

Source: PCORI  
PI: Gerber, J (CHOP)  
Role: Co-Investigator

2012-2013 **The Complexity of Simple Things: An Ethnographic Study of The Challenges of Preventing Hospital-Acquired Infection**

Source: University of Pennsylvania School of Arts and Sciences  
PI: Szymczak, J  
Role: Principal Investigator

2011-2012 **Exploring the Adaptive and Interpretive Dynamics of Implementation in Infection Prevention** (1R36HS020760-01)

Source: AHRQ  
PI: Szymczak, J  
Role: Principal Investigator

INVITED LECTURES BY TOPIC [\*Cancelled due to COVID-19]

Sociobehavioral Implications of COVID-19 on Infection Prevention and Antimicrobial Stewardship

2021 SHEA Spring Meeting, Virtual

The Social Dynamics of Antimicrobial Prescribing via Telemedicine

2021 PROS Meeting, American Academy of Pediatrics, Virtual

2020 PACCARB Antibiotics Access Working Group Meeting, Virtual

The Social Determinants of Antimicrobial Prescribing: Towards a More 'Human' Stewardship

2020 Nebraska Antimicrobial Stewardship Summit, Omaha, NE (**Keynote**)\*

Mayo Clinic Infectious Diseases Practice Update, Kohala, HI

2019 National Foundation for Infectious Diseases Webinar, Washington, DC



- Imperial College London, The British Society for Antimicrobial Chemotherapy, London, UK  
 American Society for Microbiology 54th Annual Region 1 Meeting, Boston, MA  
 Houston Methodist Hospital, Houston, TX (**Grand Rounds**)  
 Minnesota Department of Public Health, St. Paul, MN (**Keynote**)  
 Department of Pediatrics, Washington University, St. Louis, MO (**Grand Rounds**)  
 Massachusetts Department of Public Health, Boston, MA (**Keynote**)  
 Three Rivers Antimicrobial Stewardship Symposium, Allegheny General, Pittsburgh, PA  
 American Academy for the Advancement of Science (AAAS), Washington, DC  
 Texas Medical Center Antimicrobial Resistance and Stewardship Conference, Houston, TX
- 2018 The Conference of Research Workers in Animal Diseases, Chicago, IL (**Keynote**)  
 Lehigh Valley Hospital, Department of Pediatrics, Lehigh, PA (**Grand Rounds**)  
 Inova Children's Hospital, Fells Church, VA (**Grand Rounds**)  
 Children's Hospital Association Infection Prevention Forum, Denver, CO (**Keynote**)  
 Emory University Division of Infectious Diseases, Atlanta, GA (**Grand Rounds**)  
 Kansas Hospital Association Quality Summit, Wichita, KS (**Keynote**)  
 Kansas State University School of Veterinary Medicine, Manhattan, KS  
 Georgia Department of Public Health Webinar, Atlanta, GA  
 eBright Health Collaborative, Dover, DE (**Keynote**)  
 University of Washington Division of Infectious Diseases Seminar, Seattle, WA
- 2017 HAI/AR Advisory Group Meeting, Kansas Department of Health, Wichita, KS  
 Antimicrobial Stewardship Premeeting Workshop, IDWeek2017, San Diego, CA  
 Pro-Con Panel, Controversies in Antimicrobial Stewardship, IDWeek2017, San Diego, CA  
 PACCARB Public Meeting, Washington, DC  
 American Academy of Pediatrics (AAP) National Conference, Chicago, IL  
 St. Jude Children's Research Hospital, Memphis, TN (**Grand Rounds**)  
 Infectious Diseases Society of Puerto Rico 12th Annual Meeting, San Juan, Puerto Rico  
 PACCARB Diagnostics Working Group Meeting, Washington, DC  
 CIDRAP Stewardship Webinar, Minneapolis, MN
- 2016 SHEA Antimicrobial Stewardship Research Workshop, San Diego, CA  
 Antimicrobial Stewardship Premeeting Workshop, IDWeek2016, New Orleans, LA  
 Antimicrobial Stewardship Collaborative, Department of Public Health, Philadelphia, PA  
 AHRQ/CDC CARB Stakeholder Summit, Atlanta, GA  
 Division of Infectious Diseases, UCLA Health, Los Angeles, CA (**Grand Rounds**)  
 Pediatric Infectious Diseases Division, Washington University, St. Louis, MO (**Grand Rounds**)  
 Clinical Champions in Comprehensive Antibiotic Stewardship (CCCAS) Webinar
- 2015 University of Iowa Carver College of Medicine, Iowa City, IA  
 Armstrong Institute, The Johns Hopkins Hospital, Baltimore, MD (**Grand Rounds**)  
 6th Annual International Pediatric Antibiotic Stewardship Conference, Kansas City, MO  
 CDC Epicenter Grantee Annual Meeting, Atlanta, GA
- 2014 Antimicrobial Stewardship Collaborative, Department of Public Health, Philadelphia, PA

#### Sociobehavioral Interventions to Improve Antimicrobial Use in Primary Care

- 2021 Pediatric Academic Society (PAS) Annual Meeting, Virtual  
 2020 Pew-CDC Outpatient Stewardship Premeeting Workshop, IDWeek2020  
 Hot Topic Symposia, Pediatric Academic Societies Annual Meeting, Philadelphia, PA\*  
 2019 Pew-CDC Outpatient Stewardship Premeeting Workshop, IDWeek 2019, Washington, DC

#### 'A Very Complicated Dance:' Communication in Antimicrobial Stewardship

- 2020 11th Annual International Pediatric Stewardship Conference, St. Louis, MO (**Keynote**)\*

- 2019 Three Rivers Antimicrobial Stewardship Symposium, Allegheny General, Pittsburgh, PA\*
- 2019 CDC Epicenter Grantee Annual Meeting, Atlanta, GA
- 2018 Antimicrobial Stewardship Symposium, IDWeek2018, San Francisco, CA
- 9th Annual International Pediatric Stewardship Conference, St. Louis, MO

Measuring and Preventing Burnout in Antimicrobial Stewardship Personnel

- 2020 Antimicrobial Stewardship Premeeting Workshop, IDWeek2020
- 2019 ARES Seminar Series, University of Pennsylvania, Philadelphia, PA

The Complexity of Simple Things: A Sociological Perspective on Infection Prevention

- 2021 Minnesota Association for Professionals in Infection Control General Meeting, St. Paul, MN
- 2017 Pennsylvania Department of Public Health Seminar Series, Harrisburg, PA
- Hospital Association of Pennsylvania (HAP) HIIN Webinar
- 2016 Human Factors in Infection Prevention Symposium, IDWeek2016, New Orleans, LA
- 2014 Symposium on the Sociology of Patient Safety, British Sociology Association, Birmingham, UK

A Sociological Reinterpretation of Quality Metrics in Hospital Epidemiology

- 2021 Department of Health Policy, Emory Rollins School of Public Health, Atlanta, GA
- CPCE Seminar, CHOP, Philadelphia, PA
- 2020 SHEA Decennial Conference, Atlanta, GA\*
- 2016 Association for Professionals in Infection Control (APIC) Meeting, Philadelphia, PA
- UCLA Department of Sociology Ethnography Workshop, Los Angeles, CA

Between a Rock and a Hard Place: Why Physicians and Advanced Practice Providers Work When Sick

- 2015 CDC Epicenter Grantee Webinar, Atlanta, GA
- Infection Prevention Directors Forum, Children's Hospital Association, Phoenix, AZ

Using Qualitative Methodology to Understand How Culture and Context Shapes Medical Practice

- 2020 PCRN SIG, Pediatric Academic Societies Annual Meeting, Philadelphia, PA\*
- 2019 Symposium Panelist, International Society for Pharmacoepidemiology, Philadelphia, PA
- Imperial College, London UK
- 2018 SHEA Antimicrobial Stewardship Research Workshop, Baltimore, MD
- 2017 SHEA Antimicrobial Stewardship Research Workshop, Chicago, IL

Changing Hearts and Minds: A Sociobehavioral Approach to Improving Patient Safety and Quality

- 2019 Patient Safety Symposium, Inova Hospital, Falls Church, VA (**Keynote**)
- 2018 Connelly Lecture, Cincinnati Children's Hospital, Cincinnati, OH (**Keynote**)
- Premeeting Workshop, IDWeek2018, San Francisco, CA

Bearing Witness to the Sharp Edges of Healthcare: On Being a Sociologist In Medicine

- 2020 Colloquium, Washington University Department of Anthropology, St. Louis MO\*
- Carleton College Department of Sociology, Northfield, MN
- 2019 Temple University Department of Sociology, Philadelphia, PA
- Carleton College Department of Sociology, Northfield, MN

2018 University of Pennsylvania Department of Sociology, Philadelphia, PA

SELECTED CONFERENCE PRESENTATIONS [\*Cancelled due to COVID-19]

Glassman, L.W., Dutcher L., Lautenbach, E., Muller B.M., Hamilton K.W., & **Szymczak, J.E.** 2021. The influence of relational embeddedness on clinician interpretation of performance data in an antimicrobial stewardship intervention. Academy Health Annual Research Meeting. (Poster)

**Szymczak, J.E.**, Muller B.M, Shakamuri, N., Hamilton, K.W., Dodds-Ashley, E., Babcock, H.M., Moehring, R.W., Newland, J.G., & Lautenbach, E. 2021. The impact of social role identity on communication in hospital-based antimicrobial stewardship. SHEA Annual Meeting. Virtual. (Oral Abstract)

Dinh, C., Czuczman, C., Dhamanaskar, R., Schmidt, H. & **Szymczak, J. E.** 2021. An evaluation of public comments on Kentucky's work requirements and other measures to promote personal responsibility. Academy Health National Health Policy Conference. (Oral Abstract)

**Szymczak, J. E.**, Muller, B. M., Shakamuri, N. S., Hamilton, K. W., Gerber, J. S., Laguio-Vila, M., Dumyati, G. K., Fridkin, S. K., Wiley, Z., Sexton, M. E., Guh, A. Y., Reddy, S. C. & Lautenbach, E. 2020. An Interactive Sociotechnical Analysis of the Implementation of Electronic Decision Support Tools in Antimicrobial Stewardship. SHEA Decennial Conference. Atlanta, GA. (Poster)\*

Redding, L. E., Muller, B. M. & **Szymczak, J. E.** 2020. Veterinarian Perceptions of Antimicrobial Use Metrics for Hospital-Based Stewardship in the United States. Council for Research Workers in Animal Diseases Annual Meeting. (Oral Abstract)

Dinh, C., Czuczman, C., Dhamanaskar, R., Schmidt, H. & **Szymczak, J. E.** 2020. An evaluation of public comments on Kentucky's work requirements and other measures to promote personal responsibility. American Public Health Association Annual Meeting. (Oral Abstract)

**Szymczak, J. E.**, Muller, B. M., Shakamuri, N. S., Hamilton, K. W., Gerber, J. S., Dumyati, G. K., Fridkin, S. K. & Lautenbach, E. 2019. The Path of Least Resistance: Prescriber Perceptions of Fluoroquinolones, Extended-Spectrum Cephalosporins and Clostridium difficile Infection. SHEA Spring Meeting. Boston, MA. (Oral Abstract)

Lavigne, S., Louis, S., Zaoutis, T. & **Szymczak, J. E.** 2019. Antibiotic Use Guidelines: Perception and Use in Companion Animal Veterinary Medicine. American Public Health Association Annual Meeting. Philadelphia, PA. (Oral Abstract)

Kohut, M. R., Tamma, P. D., Cosgrove, S. E., Davidson, L., Speck, K., Miller, M. & **Szymczak, J. E.** 2018. Treating Fear: Emotional Factors that Shape Antibiotic Prescribing in Acute Care Settings SHEA Spring Meeting. Portland, OR. (Oral Abstract)

**Szymczak, J.E.**, Lee, G., Woods, C., Creech, C. B., Gilsdorf, J. R., Dennehy, P. & Zaoutis, T. 2015. Beyond the RVU: Exploring the Value of a Cognitive Pediatric Subspecialty. Pediatric Academic Societies Annual Meeting. San Diego, CA. (Oral Abstract)

**Szymczak, J. E.**, Smathers, S., Hoegg, C., Klieger, S. & Sammons, J. S. 2014. Between a rock and a hard place: Why physicians and advanced practice providers work while sick. IDWeek2014. Philadelphia, PA. (Poster)

**Szymczak, J. E. & Coffin, S. E.** 2014. How mandatory public reporting undermines infection prevention: An ethnographic study. IDWeek2014. Philadelphia, PA. (Poster)

**Szymczak, J. E.** Talk of Culture as a Barrier to Change in Hospital Work. American Sociological Association Annual Meeting 2014 San Francisco, CA. (Oral Abstract)

**Szymczak, J. E., Feemster, K. A., Zaoutis, T. & Gerber, J. S.** 2013. Primary Care Pediatrician Perceptions of an Intervention to Improve Antibiotic Prescribing Behavior. Pediatric Academic Societies Annual Meeting. Washington, DC. (Poster)

**Szymczak, J. E. & Bosk, C. L.** 2010. Training for Efficiency: Work, Time and the Management of Systemic Uncertainty in Medical Residency. American Sociological Association Annual Meeting. Atlanta, GA. (Oral Abstract)

**Szymczak, J. E.** 2009. The Rhetoric vs. Reality of the ACGME's Duty Hour Restrictions: Embedding Policy Discourse into the Everyday Work of Internal Medicine Residents in a VA Hospital Eastern Sociological Society Annual Meeting. Baltimore, MD. (Oral Abstract)

## TEACHING AND MENTORING

Instructor of Record - University of Pennsylvania Perelman School of Medicine

### **Qualitative Methods in the Study of Health, Disease and Medical Systems (EPID534)**

Spring 2018 (6 students), Spring 2019 (9 students), Spring 2020 (11 students), Fall 2020 (12 students)

### **Human Factors in Biomedical Informatics (BMIN507)**

Fall 2019 (5 students), Co-taught with Ross Koppel, PhD

### Doctoral Students

- 2020-           Bernadette D'Alonzo, MPH  
Epidemiology, Penn  
Injury epidemiology, gender, social epidemiology, mixed methods
- 2018-           Stephanie Teeple (Dissertation Chair)  
Epidemiology, MD-PhD Program, Penn  
"Health inequality and machine learning-based tools for emergency department triage: A mixed methods approach"  
NLM (1F31LM013403-01)
- 2018-           Erin Schnellinger (Dissertation Chair)  
Epidemiology, Penn  
"Accounting for survivor bias in lung allocation"  
NHLBI (1F31HL149338-01)
- 2018-2020     Katharina Rynkiewich, Ph.D.  
Anthropology, Washington University in St. Louis  
"The social dynamics of antibiotic use in a large American medical complex"  
Current: Postdoctoral Fellow, Case Western Reserve University

- 2017-2020 Sondra Lavigne, Ph.D., M.A.  
Epidemiology, DVM-PhD Program, Penn  
"Antimicrobial use and resistance: Intersections of companion animal and public health"  
Current: Completing veterinary school
- 2017-2020 M. Elle Saine, Ph.D.  
Epidemiology, MD-PhD Program, Penn  
"Measuring disease-related stigma in patients with chronic Hepatitis C virus infection"  
Current: PGY-1 Internal Medicine Resident, Hospital of the University of Pennsylvania
- 2016-2018 Stephen Perez, PhD, RN, CRNP  
Nursing, Penn  
"Public reporting of healthcare-associated infections: The impact of public policy on healthcare organizations and patient outcomes"  
Current: EIS Officer, NJ Department of Health

#### Career Development Mentees

- 2019- George Anesi, MD, MSCE, MBE (Penn)  
"Influenza-specific healthcare capacity strain"  
AHRQ/PCORI K12-HS026372
- 2018- Rebecca Feldman Hamm, MD, MSCE (Penn)  
"A Standardized Labor Induction Protocol to Reduce Primary Cesarean and Racial Disparities in Labor Outcomes: A Prospective Cohort Study"  
NICHD (1K23HD102523-01)
- 2017- Gary Weissman, MD, MSHP (Penn)  
"Using Natural Language Processing and Machine Learning to Identify Potentially Preventable Hospital Admissions Among Outpatients with Chronic Lung Disease"  
NHLBI (5K23HL141639-03)

#### Fellows

- 2019- Lindsay W. Glassman, PhD  
Postdoctoral Fellow, University of Pennsylvania Perelman School of Medicine
- 2017-2019 Katherine Pryor, MD  
Internal Medicine Resident, Brigham and Women's Hospital, Harvard Medical School
- 2017-2019 Lena Winestone, MD  
Assistant Professor, Pediatric Oncology, UCSF Benioff Children's Hospital
- 2014-2016 Suratha Elango, MD, MSHP  
Primary Care Pediatrician, Community Health Advocate, Texas Children's Hospital

#### Master's Students

- 2021 Maj. Brian Farr, DVM, MSTR
- 2018 Eimear Kitt, MD, MSCE
- 2018 Allie Barz, MD, MSCE
- 2017 Amanda DiNofia, MD, MSCE

## Medical Students

2019- Sara Briker (IDSA GERM Grant Recipient)  
2018-2020 Casey Kim (IDSA GERM Grant Recipient)  
2016-2019 Vasiliki Triantafillou, MD  
2016-2017 Christopher Gaw, MD

## EDITORIAL SERVICE

### Editorial Board

2020- Associate Editor, BMJ Quality and Safety

### Occasional Reviewer

### **Sociology Journals**

Social Science and Medicine  
Journal of Health and Social Behavior  
Ethnography  
Social Science Research  
Science, Technology and Human Values  
Qualitative Sociology  
Sociology of Health and Illness  
Work and Occupations

### **Clinical Journals**

American Journal of Critical Care  
Journal of the Pediatric Infectious Diseases Society  
Infection Control and Hospital Epidemiology  
Journal of Hospital Medicine  
Antimicrobial Resistance and Infection Control  
American Journal of Infection Control  
Clinical Infectious Diseases  
Journal of Pain and Symptom Management  
Mayo Clinic Proceedings  
Annals of Family Medicine  
Journal of General Internal Medicine  
JAMA Network Open

### **Quality Improvement, Health Services Research and Implementation Science**

BMJ Quality and Safety  
Joint Commission Journal on Quality and Patient Safety  
Medical Care  
Implementation Science Communications

## PROFESSIONAL SERVICE

### Organizing Roles in Scientific Meetings [\*cancelled due to COVID-19]

2021 SHEA Decennial Selected Sessions Webinar

**Organizer and Moderator**, "Knowing is Not Enough: Behavior Change to Translate Guidelines Into Practice"

2020 Washington University 11th Annual International Pediatric Antimicrobial Stewardship Conference, St. Louis, MO\*  
**Chair**, "Increasing Influence: Communication Strategies for Antimicrobial Stewards" Preconference Workshop

2018-2020 SHEA Decennial Conference, Atlanta GA\*  
**Planning Committee Member**  
**Organizer and Moderator**, "Knowing is Not Enough: Behavior Change to Translate Guidelines Into Practice"  
**Chair**, Networking Committee

2019 IDWeek2019, Washington DC  
**Moderator**, "Behavioral Approaches to Antimicrobial Stewardship"

2018 Pew Charitable Trust Summit on The Role of Sociobehavioral Sciences in Outpatient Antimicrobial Stewardship, Atlanta, GA  
**Co-Chair and Organizer**

2018 IDWeek 2018, San Francisco, CA  
**Chair and Moderator**, Pre-meeting Workshop "A Sociobehavioral Approach to Infection Prevention and Antimicrobial Stewardship"

#### Committees

2021- Expert Advisory Panel Member, "Physicians' Moral Stress During COVID-19: A Qualitative Analysis of Systems Factors," The Greenwall Foundation and University of North Carolina, Chapel Hill

2021- Member, Post Doctoral Fellowship Selection Panel, The Healthcare Improvement Studies Institute (THIS), University of Cambridge, Cambridge UK

2020- SHEA Committee on Implementation Science and Antimicrobial Stewardship, White Paper Working Group Member and Senior Author

2019 Infectious Diseases Society of America (IDSA) Research Summit, "Leveraging Existing and Novel Diagnostics for Optimizing Outpatient Antimicrobial Stewardship," Expert Panel Member

2017-2019 SHEA Committee on Antimicrobial Stewardship Research, White Paper Working Group Member and Co-Author

2017 Pew Charitable Trust, Social and Behavioral Factors that Shape Antibiotic Use Briefs, Expert Peer Reviewer

2016- AHRQ, Johns Hopkins University and the National Opinion Research Center Comprehensive Unit-Based Safety Program for Antibiotic Stewardship, Technical Expert Panel Member

2015-2017 NIH Training Institute for Dissemination and Implementation Research in Health,  
Applicant Referee

#### DEPARTMENTAL AND UNIVERSITY SERVICE

University of Pennsylvania Perelman School of Medicine

2020- **Elected Member**, Medical Faculty Senate Steering Committee

Department of Biostatistics, Epidemiology and Informatics

2021- Epidemiology Faculty Recruitment Committee  
2021- **Chair**, GGEB Awards Committee  
2020- CCEB Executive Committee  
2019-2020 Epidemiology Website Revitalization Committee  
2019-2020 Epidemiology Division Guiding Coalition  
2019-2020 Research Day Planning Committee  
2018-2019 Women's Leadership Development Committee  
2018-2019 CCEB Appointments Committee  
2017- MSCE Curriculum Committee  
2016-2020 Patient Centered Outcomes Research Committee

#### PROFESSIONAL MEMBERSHIPS

American Sociological Association  
Society for Healthcare Epidemiology of America  
Infectious Diseases Society of America  
Pediatric Infectious Diseases Society  
Academy Health

#### SELECTED MEDIA COVERAGE

2019 "Social solutions to antibiotic resistance," *Penn Today*, July 2