**CURRICULUM VITAE**

**Katherine D. Ellingson, PhD, CIC**

University of Arizona  
Mel and Enid Zuckerman College of Public Health

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chronology of education

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| **Epidemic Intelligence Service (Post-doctoral Fellowship)**  Centers for Disease Control and Prevention  Division of Healthcare Quality Promotion | 2006 – 2008  Atlanta, GA |
| **Doctor of Philosophy in Epidemiology and Public Health**  Yale University School of Medicine  Department of Epidemiology and Public Health  Division of Health Policy and Administration  Concentration in Health Services Research  Dissertation: *Evaluating the Combined Impact of Formal and Informal  “Connectedness” on Mental Health Service Use and Public Program  Participation for At-Risk Children* | Advisor: Mark Schlesinger, PhD | 2006  New Haven, CT |
| **Bachelor of Science in Psychobiology**  University of California, Los Angeles | 1999  Los Angeles, CA |

chronology of EMPLOYMENT

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| **Associate Professor**  University of Arizona  Department of Epidemiology and Biostatistics  College of Public Health (primary appointment) | 07/2022 – Present  Tucson, AZ |
| Division of Infectious Diseases  College of Medicine (affiliate) |  |
| **Assistant Professor**  University of Arizona  Department of Epidemiology and Biostatistics  College of Public Health (primary appointment) | 01/2017 – 06/2022  Tucson, AZ |
| School of Animal and Comparative Biomedical Sciences  College of Agriculture and Life Sciences (co-appointment) | 01/2017 – 12/2019 |
| **HAI Epidemiologist Consultant**  Pima County Health Department | 03/2020 – Present |
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| **Public Health Scientist**  Centers for Disease Control and Prevention  Office of Blood, Organ, and Other Tissue Safety | 07/2016 – 12/2016 Remote Contractor |
| **Senior Epidemiologist**  Oregon Health Authority, Public Health Division  Acute and Communicable Disease Prevention | 09/2014 – 06/2016  Portland, OR |
| **Epidemiologist Consultant**  Oregon Health Authority, Public Health Division  Oregon Patient Safety Commission | 12/2013 – 08/2014  Portland, OR |
| **Epidemiologist**  Centers for Disease Control and Prevention  Division of Healthcare Quality Promotion | 07/2008 – 10/2013  Atlanta, GA |
| **Epidemic Intelligence Service Officer; Lieutenant, US Public Health Service**  Centers for Disease Control and Prevention | 07/2006 – 06/2008  Atlanta, GA |
| **Graduate Research Methods Consultant**  Yale University, Robert Wood Johnson Clinical Scholars Program | 08/2005 – 06/2006  New Haven, CT |
| **Graduate Research Assistant**  Yale University, Department of Pediatrics | 04/2003 – 06/2006  New Haven, CT |
| **Graduate Co-Instructor**: Methods in Health Services Research  Yale University, Department of Epidemiology and Public Health | 01/2006 – 05/2006  New Haven, CT |
| **Graduate Teaching Assistant**: Methods, Statistics, Epidemiology, Policy  Yale University, Department of Epidemiology and Public Health | 08/2002 – 05/2005  New Haven, CT |
| **Graduate Research Assistant**  Yale University, Connecticut Early Development Project | 12/2002 – 08/2004  New Haven, CT |
| **Research Assistant**  The Measurement Group | 06/1999 – 07/2001  Los Angeles, CA |
| **Undergraduate Research Assistant**  Southern California Injury Prevention Research Center | 09/1997 – 06/1999  Los Angeles, CA |
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HONORS, AWARDS, & Certifications

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| 2024 Charles C. Shepard Award for Outstanding Scientific Publication in Health Assessment  Centers for Disease Control and Prevention | 2024 |
| Certification in Infection Control (CIC)  Certification Board of Infection Control and Epidemiology, Inc. | 2023 |
| 2020 Team Award for Excellence in Service: Public Health Advisory on COVID-19 Team  University of Arizona | 2021 |
| 2019 Excellence in Research Award  University of Arizona, Mel and Enid Zuckerman College of Public Health | 2020 |
| 2018 Excellence in Teaching Award  University of Arizona, Mel and Enid Zuckerman College of Public Health | 2019 |
| Director’s Yellow Brick Award of Distinction for Analytics and Reporting  Oregon Health Authority | 2016 |
| Honor Award for Excellence in Evaluating State Healthcare-Associated Infection Programs  Centers for Disease Control and Prevention | 2014 |
| Nakano Citation for Outstanding Scientific Publication in Prevention and Control  Centers for Disease Control and Prevention | 2012 |
| Honor Award for Exemplary Leadership in Implementation of the First Healthcare-Associated Infection Surveillance System in Egypt  Centers for Disease Control and Prevention | 2012 |
| iFund Innovation Award for Local Production of Alcohol-based Handrub in Kenya  Department of Health and Human Services | 2011 |
| J. Virgil Peavy Epidemic Intelligence Service Award for Excellence and Innovation in the Development and Application of Statistical Methods in an Epidemiologic Investigation Centers for Disease Control and Prevention | 2008 |
| Honor Award for Exemplary Teamwork, Dedication, and Excellence in Improving Healthcare Infection Control in Resource-Limited Settings  Centers for Disease Control and Prevention | 2008 |
| Honor Award for Excellence in Public Health Responseto *Methicillin-resistant staphylococcus aureus*.  Centers for Disease Control and Prevention | 2008 |
| John F. Enders Award for Dissertation Research  Yale University Graduate School of Arts and Sciences | 2005 |

SERVICE & OUTREACH (since 2017)

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| **STATE/LOCAL** |  |
| HCW HOSTED in Support of Healthcare Workers  Founding Member and Epidemiology Advisor, Tucson AZ | 2020 – 2022 |
| Pandemic Long-term Care Team Consultant for Infection Prevention  Pima County Health Department | 2020 – 2023 |
| Healthcare-associated Infections Sub-committee on Antimicrobial Stewardship  Arizona Department of Health Services | 2018 – Present |
| Healthcare-associated Infections Sub-committee on Long-term Care  Arizona Department of Health Services | 2018 – Present |
| Tucson Citywide Antimicrobial Stewardship Programming Committee | 2018 – 2019 |
| **NATIONAL/INTERNATIONAL** |  |
| Healthcare Infection Control Practices Advisory Committee (HICPAC)  Appointed Member | 2024 – Present |
| Editorial Board  Society for Healthcare Epidemiology of America (SHEA) | 2023 – Present |
| Compendium Committee, Hand Hygiene Subject Matter Expert  Society for Healthcare Epidemiology of America (SHEA) | 2019 – 2023 |
| Research Committee  Society for Healthcare Epidemiology of America (SHEA) | 2018 – 2020 |
| **DEPARTMENT COMMITTEES** |  |
| Epidemiology qualifying exam committee | 2024-Present |
| Epidemiology program MS/PhD student admissions | 2018 – Present |
| Infectious Diseases faculty search committees | 2018 – 2019 |
| **COLLEGE COMMITTEES** |  |
| COVID-19 Taskforce for the Mel and Enid Zuckerman College of Public Health | 2020 – 2022 |
| Undergraduate One Health Program and Curriculum Development Committee | 2020 – Present |
| Community Engagement, Practice, and Scholarship Committee | 2018 – 2019, 2024 – present |
| **UNIVERSITY COMMITTEES** |  |
| Pandemic Academic Coordination (PAC) Committee | 2020 – 2022 |
| Public Health Advisory on COVID-19 Team (PHACT) | 2020-2021 |
| Campus Reentry Plan Working Group | 2020 |
| Pandemic Club Sports and Activity Planning Committee | 2020 |
| Teacher Course Evaluation Vision Committee | 2017 – 2018 |
| **EDITORIAL** |  |
| Section Editor for *Methodology Minute*  American Journal of Infection Control | 2017 – 2018 |
| Ad-hoc Manuscript Reviewer   * American Journal of Epidemiology * American Journal of Infection Control * American Journal of Public Health * American Journal of Preventive Medicine * Annals of Internal Medicine * Antimicrobial Stewardship and Healthcare Epidemiology * BMJ Public Health * BMJ Safety and Quality * Clinical Infectious Diseases * Emerging Infectious Diseases * Epidemiology and Infection * Infection Control and Hospital Epidemiology * International Journal of Infectious Diseases * JAC Antimicrobial Resistance * Journal of the American Medical Association (JAMA) * Journal of Hospital Infection * Learning Health Systems * New England Journal of Medicine (NEJM) * PLoSONE * PLoS Neglected Tropical Diseases * Preventive Medicine Reports * The Lancet Regional Health – Americas * Vaccine X | 2017 – Present |

PUBLICATIONS

**BOOK CHAPTERS AND PUBLISHED REPORTS**

**Ellingson KD**, Ruedas P, Hawkes BA⁰, Trujillo A⁰, Larson AC. *2024 Arizona Farmworker Enumeration Profiles Study*. October **2024.** Published Online: <https://azfeps.arizona.edu/>

Landers T, **Ellingson K**, Grow M, Kendall A, Marx J, Pincock T, Knighton S, Steed C. *APIC Implementation Guide: Hand Hygiene Programs for Infection Prevention*. **2015**. Hand hygiene implementation guide. Published online: <http://apic.org/Professional-Practice/Implementation-guides#HandHygiene>

**REFEREED JOURNAL ARTICLES, PUBLISHED OR ACCEPTED**

1. Quirk GE, Schoenle MV, Peyton KL, Uhrlaub JL, Lau B, Burgess JL, **Ellingson KD**, Beitel S, Romine J⁰, Lutrick K, Fowlkes A, Britton A, Tyner HL, Caban-Martinez AJ, Naleway A, Gaglani M, Yoon S, Edwards L, Olsho L, Dake M, LaFleur BJ, Nikolich JŽ, Sprissler R, Worobey M, Bhattacharya D. *Determinants of de novo B cell responses to drifted epitopes in post-vaccination SARS-CoV-2 infections*. Nature Immunology. Accepted 02/26/**2025**
2. **Ellingson KD**, Degnan WJ, Nuño T, Horton A, Carrasco C, Rubio M⁰, Yang Y, DeBoth MD, Johnson M, Venkatachalam H, LaFleur B, Ryan L, Coon DW, Barnes CA, Huentelman M, Chen Z. *Participation of Underrepresented Communities in an Online Cognitive Aging Platform and Predictors of Willingness to be Contacted for Future Research*. BMJ Public Health. Accepted 02/14/**2025**
3. Yousaf AR, Mak J, Gwynn L, Lutrick K, Bloodworth RF, Rai RP, Jeddy Z, LeClair LB, Edwards LJ, Olsho LEW, Newes-Adeyi G, Dalton AF, Caban-Martinez AJ, Gaglani M, Yoon SK, Hegmann KT, Phillips AL, Burgess JL, **Ellingson KD**, Rivers P, Meece JK, Feldstein LR, Tyner HL, Naleway A, Campbell AP, Britton A, Saydah S. *COVID-19 Vaccination and Odds of Post-COVID-19 Condition Symptoms in Children Aged 5 to 17 Years*. JAMA Netw Open. **2025**. Feb 3;8(2). PMID: 39992656
4. Chan LYH, Morris SE, Stockwell MS, Bowman NM, Asturias E, Rao S, Lutrick K, **Ellingson KD**, Nguyen HQ, Maldonado Y, McLaren SH, Sano E, Biddle JE, Smith-Jeffcoat SE, Biggerstaff M, Rolfes MA, Talbot HK, Grijalva CG, Borchering RK, Millis AM, RVTN-Sentinel Study Group. *Estimating the generation time for influenza transmission using household data in the United States*. Epidemics. **2025** Jan 18; 50. PMID: 39864299
5. Bullock A, Dalton AF, Stockwell MS, McLaren SH, Nguyen HQ, Rao, S, Asturias E, Lutrick K, **Ellingson KD**, Maldonado Y, Mellis AM, Smith-Jeffcoat SE, Grijalva CG, Talbot HK, the RVTN-Sentinel Study Group, Floris-Moore M, Bowman N. *Persistent symptoms after acute SARS-COV-2 and influenza infections in a case-ascertained household transmission study*. Clinical Infectious Diseases. Accepted 01/10/**2025**.
6. Mitchell CL⁰, Hollister J⁰, Fisher JM, Beitel SC, Ramadan FA⁰, O’Leary S, Fan Z, Lutrick K, Burgess JL, **Ellingson KD**. *Differences in Serum Concentrations of Per-and Polyfluoroalkyl Substances by Occupation Among Firefighters, Other First Responders, Healthcare Workers, and Other Essential Workers in Arizona, 2020–2023*.J Expo Sci Environ Epidemiol. **2025** Mar 6. PMID: https://doi.org/10.1038/s41370-025-00753-7
7. Colombo P⁰, Ramadan FA⁰, Kaur D⁰, Armenta D, Patterson PP, **Ellingson KD**. *Leveraging the McGeer criteria to Estimate Frequency of Inappropriate Antibiotic Prescribing for Urinary and Respiratory Tract Infections Relative to the Onset of the COVID-19 pandemic at a Skilled Nursing Facility.* Antibiotics. **2025** Jan 5;14(1):35. PMID: 39858321
8. Feldstein LR, Ruffin J, Wiegand R, Grant L, Babu TM, Briggs-Hagen M, Burgess JL, Caban-Martinez AJ, Chu HY, **Ellingson, KD**, Englund JA, Hegmann KT Jeddy Z, Kuntz J, Lauring AS, Lutrick K, martin ET, Mathenge C, Meece J, Midgley CM, Monto AS, Naleway AL, Newes-Adeyi G, Odame-Bamfo L, Olsho LEW, Phillips AL, Rai RP, Saydah S, Smith N, Tyner H, Vaughan M, Weil A, Yoon SK, Britton A, Gaglani M. *Protection from COVID-19 vaccination and prior SARS-CoV-2 infection among children aged 6 months – 4 years, United States, September 2022–April 2023*. Journal of the Pediatric Infectious Diseases Society. **2025** Jan 20;14(1). PMID:39656907
9. Hollister J⁰, Sprissler R, Beitel SC, Romine JK, Uhrlaub JL, Grant L, Yoo YM, Folkes A, Britton A, Olsho LEW, Newes-Adeyi G, Fuller S, Zheng PQ, Gaglani M, Rose S, Dunnigan K, Naleway AL, Gwynn L, Caban-Martinez A, Schaefer Solle N, Tyner HL, Philips AL, Hegmann KT, Yoon S, Lutrick K, Burgess JL, **Ellingson KD**. *Risk reduction in SARS-CoV-2 infection and reinfection conferred by humoral antibody levels among essential workers during Omicron predominance*. PLOS ONE. **2024** Dec 31; 19(12). PMID: 39739951

1. Mak J, Khan S⁰, Britton A, Rose S, Gwynn L, **Ellingson KD**, Meece J, Felldstein L, Tyner H, Edwards L, Thiese MS, Naleway A, Gaglani M, Solle N, Burgess JL, Mayo Lamberte J, Shea M, Hunt-Smith T, Caban-Martinez A, Porter C⁰, Wiegand R, Rai R, Hegmann KT, Hollister J⁰, Fowlkes A, Wesley M, Philips AL, Rivers P, Bloodworth R, Newes-Adeyi G, Olsho LEW, Yoon SK, Saydah S, Lutrick K. *Association of mRNA COVID-19 vaccination and reductions in Post-COVID Conditions following SARS-CoV-2 infection in a US prospective cohort of essential Workers*. Journal of Infectious Diseases. **2024** Nov 13. PMID: 39531735
2. Nuño T, **Ellingson KD**, Chen Z, De Both M, Johnson M, Venkatachalam H, Carrasco C, Horton A, Rubio M⁰, Yang Y, Lieto G, Nuqui S, Ryan L, Coon DW, Huentelman M. *Increasing Hispanic Participation in Cognitive Research: An Examination of a Decade of Web-Based Recruitment into MindCrowd.* Hispanic Health Care International. **2024** Nov 25. PMID: 37584790
3. White EB, Grant L, Mak J, Burgess J, **Ellingson KD**, Gaglani M, Lutrick K, Caban-Martinez A, Meece J, Naleway A, Newes-Adey G, Olsho L, Tyner H, Yoon SK, Britton A, Flannery B, Fowlkes A. *Influenza vaccine effectiveness against illness and asymptomatic infection in 2022-23: a prospective cohort study*. Clinical Infectious Diseases. **2024** Oct 24. PMID: 39446477
4. Mitchell C⁰, Smelski G, Schmid K, Roland M, Christenberry M, **Ellingson KD**, Brooks DE, Komatsu K, Dudley S, Shirazi F, Cullen T. *Characterization of Patients with a snakebite presenting to healthcare facilities and reported to poison and drug information centers—Arizona, 2017–2021*. Clinical Toxicology. **2024** Sept 24. PMID: 39316835
5. Porter C⁰, Lyski ZL, Uhrlaub JL, **Ellingson KD**, Jeddy Z, Gwynn L, Rivers P, Sprissler R, Hegmann KT, Coughlin MM, Fowlkes AL, Hollister J⁰, LeClair L, Mak J, Beitel SC, Fuller S, Zheng PQ, Vaughan M, Rai RP, Grant L, Newes-Adeyi G, Yoo YM, Olsho L, Burgess JL, Caban-Martinez AJ, Yoon SK, Britton A, Gaglani M, Phillips AL, Thiese MS, Hagen MB, Jones JM, Lutrick K. *Evaluating immunologic and illness outcomes of SARS-CoV-2 infection in vaccinated or unvaccinated children aged ≥5 years, in a multisite longitudinal cohort: August 2021- August 2022*. Diseases. **2024** Aug 1. PMID: 39195170
6. Rolfes MA, Talbot HK, Morrissey KG, Stockwell MS, Maldonado Y, McLean HQ, Lutrick K, Bowman NM, Rao S, Izurieta HS, Zhu Y, Chappel J, Battan-Wraith S, Merrill LS, McClaren S, Sano E, Petrie JG, Biddle J, Johnson S, Salvatore P, Smith-Jeffcoat SE, Asturias EJ, Lin JT, **Ellingson KD**, Belongia EA, Olivo V, Mellis AM, Grijalva CG, RVTN Study Group. *Reduced risk of SARS-CoV-2 infection among household contacts with recent vaccination and past COVID-19 infection: results from two multi-site case-ascertained household transmission studies*. American Journal of Epidemiology. **2024** Aug 31. PMID: 39218430
7. Glowicz JB, Landon E, **Ellingson KD**. *Letter in reply to: Nail polish used by healthcare personnel does not increase the rate of healthcare-associated infections*. Infect Control Hosp Epidemiol. **2024** May 6. PMID: 38706210
8. Smith-Jeffcoat SE, Mellis AM, Grijalva CG, Talbot HK, Schmitz J, Lutrick K, **Ellingson KD**, Stockwell MS, McLaren SH, Nguyen HQ, Rao S, Asturias EJ, Davis-Gardner ME, Suthar MS, Kirking HL; RVTN-Sentinel Study Group. SARS-CoV-2 *Viral Shedding and Rapid Antigen Test Performance – Respiratory Virus Transmission Network, November 2022-May 2023*. MMWR Morb Mortal Wkly Rep. **2024** Apr 25;73(16):365-371. PMID: 38668391
9. Romine JK⁰, Li H, Coughlin MM, Jones JM, Britton A, Tyner HL, Fuller SB, Bloodworth R, Edwards LJ, Etoule JN, Morrill TC, Newes-Adeyi G, Olsho LEW, Gaglani M, Fowlkes A, Hollister J⁰, Bedrick EJ, Uhrlaub JL, Beitel S, Sprissler RS, Lyski Z, Porter CJ⁰, Rivers P, Lutrick K, Caban-Martinez AJ, Yoon SK, Philips AL, Naleway AL, Burges JL, **Ellingson KD**. *Hybrid immunity and SARS-CoV-2 antibodies: results of the HEROES-RECOVER prospective cohort study*. Clin infect Dis. **2024** Mar 11. PMID: 38466720
10. Welty CW⁰, Bingham L, Morales M, Gerald LB, **Ellingson KD**, Haynes PL. School Connectedness and Suicide Among High School Youth: A Systematic Review. J Sch Health. **2024** May;94(5):469-480. PMID: 38383772
11. Madera Garcia V⁰, Soto J, **Ellingson K**, Jacobs E, Walker K, Ernst K. *Preferences and demand for mosquito control among dengue-endemic communities in Peñuelas, Puerto Rico: an application of the best-worst choice model*. American Journal of Tropical Medicine and Hygiene. **2024** Jan 23;110(3):540-548. PMID: 38266284
12. Feldstein LR, Britton A, Grant L, Weigand R, Ruffin J, Babu TM, Briggs Hagen M, Burgess JL, Caban-Martinez AJ, Chu HY, **Ellingson KD**, Englund JA, Hegmann KT, Jeddy Z, Lauring AS, Lutrick K, Martin ET, Mathenge C, Meece J, Midgley CM, Monto AS, Newes-Adeyi G, Odame-Bamfo L, Olsho LEW, Phillips AL, Rai PP, Saydah S, Smith N, Steinhardt L, Tyner H, Vandermeer M, Vaughan M, Yoon SK, Gaglani M, Naleway AL. *Effectiveness of Bivalent mRNA COVID-19 Vaccines in Preventing SARS-CoV-2 Infection in Children and Adolescents Aged 5 to 17 Years*. JAMA. **2024** Feb 6;331(5): 408-416. PMID:38319331
13. Smith-Jeffcoat SE, Biddle JE, Talbot HK, Morrisey KG, Stockwell MS, Maldonado Y, McLean HQ, **Ellingson KD**, Bowman NM, Asturias E, Mellis AM, Johnson S, Kirking HL, Rolfes MAR, Olivo V, Merrill L, Battan-Wraith S, Sano E, McLaren SH, Vargas CY, Goodman S, Sarnquist CC, Govindaranjan P, Petrie JG, Belongia EA, Ledezma K, Prior K, Lutrick K, Bullock A, Yang A, Haehnel Q, Rao S, Zhu Y, Schmitz J, Hart K, Grijalva CG, Salvatore PP. *Symptoms, viral loads, and rebound among COVID-19 outpatients treated with nirmatreliv/ritonavir compared to propensity score matched untreated individuals*. Clin Infect Dis. **2024** May 15. PMID: 37963102
14. Yakoe DS, Advani SD, Anderson DJ, Babcock HM, Bell M, Berenholtz SM, Bryant KA, Buetti N, Calderwood MS, Calfee DP, Deloney VM, Debberke ER, **Ellingson KD**, Fishman NO, Gerding DN, Glowicz J, Hayden MK, Kaye KS, Kociolek LK, Landon E, Larson EL,Malani AN, Marschall J, Meddings J, Mermel LA, Patel PK, Perl TM, Popovich KJ, Schaffzin JK, Septimus E, Trivedi KK, Weinstein RA, Maragakis LL. *Introduction to A Compendium of Strategies to Prevent Healthcare-Associated Infections in Acute-Care Hospitals: 2022 Updates*. Infection Control and Hosp Epidemiol. **2023** Oct; 44(10): 1533. PMID: 37855077
15. Rivers P, Jovel K, Ramadan F, Barnett JA, **Ellingson KD**, Burgess JL, Lutrick K. *Disease and social factors associated with healthcare utilization for the treatment of SARS-CoV-2 infections in a longitudinal cohort of essential workers in Arizona*. BMC Health Serv Res. **2023**. Oct 18; 23(1): 1118. PMID: 37853403
16. Hollister J⁰, Caban-Martinez AJ, **Ellingson KD**, Beitel S, Fowlkes AL, Lutrick K, Tyner HL, Naleway AL, Yoon SK, Gaglani M, Hunt D, Meece J, Mayo Lamberte J, Schaefer Solle N, Rose S, Dunnigan K, Khan SM⁰, Kuntz JL, Fisher JM, Coleman A, Britton A, Thiese MS, Hegmann KT, Pavuk M, Ramadan FA, Fuller S, Nematollahi A, Sprissler R, Burgess JL. S*erum per- and polyfluoroalkyl substance concentration and longitudinal change in post-infection and post-vaccination SARS-CoV-2 antibodies*. Environ Res. **2023** Dec 15; 239 (Pt 1): PMID: 37816422
17. Lyski Z, Porter C⁰, Uhrlaub JL, **Ellingson KD**, Jeddy Z, Gwynn L, Rivers P, Sprissler R, Hegmann KT, Coughlin M, Fowlkes A, Hollister J⁰, LeClair L, Mak J, Beitel SC, Fuller S, Grant L, Newes-adeyi G, Yoo YM, Olsho L, Burgess JL, Caban-Martinez A, Yoon S, Britton A, Gaglani M, Lutrick K. *Humoral Immune Response to mRNA COVID-19 Vaccination Among Children 5-11 in a Multisite Prospective Cohort Study, September 2021-September 2022*. Open Forum Infectious Diseases. **2023**. August 12. PMID: 38172101
18. Rofles MA, Talbot HK, Huong QM, Stockwell MS, **Ellingson KD**, Lutrick KL, Bowman MN, Bendall EE, Bullock A, Chappell JD, Deyoe JE, Gilbert JT , Halasa NB, Hart KE, Johnson S, Ahra K, Lauring AS, Lin JT, Lindsell CJ, McLaren S, Meece JK, Mellis AM, Zivanovich MM, Ogokeh CE, Rodriguez M, Sano E, Silverio Francisco RA, Schmitz JE, Vargas CY, Yang A, Zhu Y, Belongia EA, Reed C, Grijalva CG. *Household Transmission of Influenza A Viruses in 2021-2022*. JAMA. **2023**. Jan 26. PMID: 36701144
19. **Ellingson KD**, Hollister J⁰, Porter CJ⁰, Khan SM⁰, Feldstein LR, Naleway AL, Gaglani M, Caban-Martinez AJ, Tyner HL, Lowe AA, Olsho LEW, Meece J, Yoon SK, Mak J, Kuntz JL, Schaefer Solle N, Respet K, Baccam Z, Wesley MG, Thiese MS, Yoo YM, Odean MJ, Miiro FN, Pickett SL, Phillips AL, Grant L, Romine JK, Herring MK, Hagemann KT, Mayo Lamberte J, Sokol B, Jovel JS, Thompson MG, Rivers P⁰, Pilishvili T, Lutrick K, Burgess JL, Midgley CM, Fowlkes AL. *Risk Factors for reinfection with the SARS-Cov-2 Omicron variant among previously infected frontline workers*. Emerging Infectious Diseases. **2023**. Jan 26; 29(3). PMID: 3670352
20. Pu J, Miranda J, Minior D, Reynolds S, Rayhorn B, **Ellingson KD**, Galgiani JN. *Improving Early Recognition of Coccidioidomycosis in Urgent Care Clinics Analysis of an Implemented Education Program.* Open Forum Infectious Diseases. **2023** Jan 31; 10(10). PMID: 36733697
21. Glowicz J, Landon E, Aiello AE, deKay K, Hoffmann KK, Maragakis L, Olmsted R, Polgreen PM, Sickbert-Bennett EE, Trexler PA, VanAmringe MA, Wood AR, Yakoe D, **Ellingson KD**. *SHEA/IDSA/APIC Practice Recommendations: Strategies to Prevent Healthcare-Associated Infections through Hand Hygiene: 2022 Update.* Infection Control and Hospital Epidemiology. **2023**. Mar;44(3):355-376. PMID: 36751708
22. Herring MK, Romine JK⁰, Wesley MG, **Ellingson KD**, Yoon SK, Caban-Martinez AJ, Meece J, Gaglani M, Grant L, Olsho LEW, Tyner HL, Naleway AL, Khan SM, Phillips AL, Schaefer NS, Rose S, Mak J, Fuller SB, Hunt A, Kuntz JL, Beitel S, Yoo YM, Zheng PQ, Arani G, Mayo Lamberte J, Edwards T, Thompson MG, Sprissler R, Thornburg NJ, Lowe AA, Pilishvili T, Uhrlaub JL, Burgess JL, Fowlkes AL. *SARS-CoV-2 infection history and response to three COVID-19 vaccine doses*. Clinical Infectious Diseases. **2023**. Mar; 29(3): 599-604. PMID: 36703252.
23. Hawkes BA⁰, Khan SM⁰, Bell ML, Guernsey de Zapien J, Ernst KC, **Ellingson KD**. *Healthcare System Distrust and Non-Prescription Antibiotic Use: a cross-sectional survey of adult antibiotic users*. Antibiotics. **2023** Jan 1; 12(10); 79. PMID: 36671280.
24. HEROES-RECOVER Network, Thompson MG, Yoon SK, Naleway AL, Meece J, Fabrizio TP, Caban-Martinez AJ, Burgess JL, Gaglani M, Olsho LEW, Bateman A, Lundgren J, Grant L, Phillips AL, Groom HC, Stefanski E, Solle NS, **Ellingson KD**, Lutrick K, Dunnigan K, Wesley MG, Guenther K, Hunt A, Mak J, Hegmann KT, Kuntz JL, Bissonnette A, Hollister J, Rose S, Morrill TC, Respet K, Fowlkes AL, Thiese MS, Rivers P, Herring MK, Odean MJ, Yoo YM, Brunner M, Bedrick EJ, Fleary DE, Jones JT, Praggastis J, Romine J, Dickerson M, Khan SM, Lamberte JM, Beitel S, Webby RJ, Tyner HL. *Association of mRNA Vaccination with Clinical and Virologic Features of COVID-19 Among US Essential and Frontline Workers*. JAMA. **2022** Oct 18;328(15):1523-1533. PMID: 36255426
25. Lutrick K, Fowlkes A, Rivers P, Herder K, Santibanez TA, LeClair L, Groover K, Lamberte JM, Grant L, Odame-Bamfo L, Ferraris MV, Phillips AL, Sokol B, Lowe AA, Mathenge C, Pubillones FA, Cottam B, McLeland-Wieser H, Jovel KS, Ochoa JS, Mckell J, Berry M, Khan S, Solle NS, Rai RP, Nakayima FM, Newes-Adeyi G, Porter C⁰, Baccam Z⁰, **Ellingson KD**, Burgess JL, Gaglani M, Gwynn L, Caban-Martinez A, Yoon S. *Parental Intentions and Perceptions Toward COVID-19 Vaccination Among Children Aged 4 Months to 4 Years – PROTECT Cohort, Four States, July 2021 – May 2022*. MMWR Morb Mortal Wkly Rep. **2022** Sep 2;71(35):1109-1114. PMID: 36048723
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8. ABC15 News TV interview. *COVID-19 Models: What do they tell us about Arizona?* 4/10/2020: <https://www.abc15.com/news/state/covid-19-models-what-do-they-say-about-arizona>
9. UNISON-Hermosillo News. *Alertan sobre la problematica de la Resistencia a los antibioticos*. 1/15/2020: <https://internacionalizacion.unison.mx/?p=1435>
10. Keeping Up with Public Health. *Episode 9: All About Antimicrobial Resistance*. 10/30/2019: <https://anchor.fm/keeping-up/episodes/Episode-9-All-About-Antimicrobial-Resistance-e8ef40>
11. The Daily Wildcat. *Father of clinical trial victim to speak on campus*. 10/21/2017: <https://www.wildcat.arizona.edu/article/2017/10/father-of-clinical-trial-victim-to-speak-on-campus>

CONFERENCES/SCHOLARLY PRESENTATIONS (Since 2017)

**ACCEPTED SCIENTIFIC ABSTRACTS: PRESENTATIONS AND POSTERS**

1. Yousaf AR et al. (co-author). *COVID-19 mRNA Vaccination Reduces the Occurrence of Post-COVID Conditions in US Children Aged 5-17 Years Following Omicron SARS-CoV-2 Infection, July 2021-September 2022*. Presented ID Week, 2023. Boston, MA
2. Rolfes MA et al. (co-author) *Reduced Risk of SARS-CoV-2 Infection among household contacts with hybrid immunity from recent COVID-19 vaccination and SARS-CoV-2 infection*. Presented ID Week, 2023. Boston, MA
3. Floris-Moore M et al. (co-author) *Predictors of Post-COVID Conditions after SARS-CoV-2 Infection in Adults Enrolled in a Multistate Household Transmission Study*. Presented ID Week, 2023. Boston, MA
4. Mellis A et al. (co-author) *Oseltamivir usage in community settings: data from a household transmission study*. Presented ID Week, 2023. Boston, MA
5. Smith-Jeffcoat SE. (co-author) *COVID-19 symptom and viral load rebound among individuals reporting nirmatrelivir/ritonavir use compared to propensity score matched individuals not taking COVID-19 treatment*. Presented ID Week, 2023. Boston, MA
6. Camarena JL, Hawkes B, Bedrick E, **Ellingson K**. *History of Infection and Worry about COVID-19 Drive Antibiotic Use for “Flu- or COVID-like” Symptoms in the United States and Mexico during the Pandemic*. Presented ID Week, 2023. Boston, MA
7. Subelj M, Camarena JL, Hawkes BA, **Ellingson K**. *Knowledge, Attitudes, and Practices Regarding Antibiotic Use during the COVID-19 Pandemic: A Comparison of United States (US) Survey Respondents Living in the US-Mexico Border Region with those Living in Non-border Regions*. Presented ID Week, 2023. Boston, MA
8. Colombo PM, Ramadan FA, Kaur D, **Ellingson K**. *Leveraging the McGeer criteria to Determine the Frequency of Potentially Inappropriate Antibiotic Prescribing for Urinary and Respiratory Tract Infections Prior to and During the COVID-19 pandemic at a Skilled Nursing Facility*. Presented ID Week, 2023. Boston, MA
9. Goodman SH et al. (co-author) *Examining social vulnerability and its effect on COVID-19 transmission in households*. Presented ID Week, 2023. Boston, MA
10. Mellis A. (co-author) *Transmissibility of SARS-CoV-2 by symptom: data from a case-ascertained household transmission study*. Presented ID Week, 2023. Boston, MA
11. Ramadan F, Kaur D, Columbo P, Patterson P, **Ellingson K**. Antibiotic Prescribing in an Arizona Skilled Nursing Facility Before and During the COVID-19 Pandemic. April 2022. Arizona Biomedical Research Commission, Phoenix, AZ

1. Khan S, Garrido C, Parra G, Villanueva J, **Ellingson K**. The *COVID-19 Pandemic and Antibiotic Use on the United States-Mexico Border*. Poster Presentation. April 2021. Society for Healthcare Epidemiology (SHEA) conference (*remote conference*)
2. Ramadan F, Romine J, Patterson P, **Ellingson K**. *An Antibiotic Stewardship Protocol for Long-term Care Facilities.* Poster Presentation. February 2021. Arizona Biomedical Research Commission, (*remote conference*).
3. Romine JK, **Ellingson KD**. *National Frequencies of Administering or Prescribing Immunosuppressive Opioids in Ambulatory Medical Care Settings in the United States: 2006 – 2016*. Abstract accepted for poster presentation at the Society for Healthcare Epidemiology (SHEA) conference in March 2020. Atlanta, GA *(cancelled)*.
4. LeGros TA, Romine JK, Kelley CP, **Ellingson KD**. *A Qualitative Study of Antibiotic Stewardship Implementation at Arizona Skilled Nursing Facilities*. Abstract accepted for poster presentation at the Society for Healthcare Epidemiology (SHEA) conference in March 2020. Atlanta, GA *(cancelled)*.
5. Llyod Krejci B, **Ellingson KD**, Coury E. *Assessing Policies versus Practices Utilizing CDC’s ICAR Tool*. Abstract accepted for poster presentation at the Society for Healthcare Epidemiology (SHEA) conference in March 2020. Atlanta, GA *(cancelled)*.
6. Li N, Leroy G, Donovan F, Galgiani J, **Ellingson KD**. *A Pilot Study of Valley Fever Tweets*. Abstract accepted for poster presentation at the Society for Healthcare Epidemiology (SHEA) conference in March 2020. Atlanta, GA *(cancelled)*.
7. LeGros TA, Kelley CP, **Ellingson KD**. *Barriers and Facilitators to Antibiotic Stewardship Implementation at Arizona Nursing Homes*. Oral Presentation, February 2020. Arizona Biomedical Research Commission, Phoenix, AZ.
8. **Ellingson KD**, Ramadan F, Pu J, Leroy G, Donovan F, Galgiani J. *Valley* F*ever Phenotypic Presentation: Exploration of a Precision Medicine Approach to Clinical Decision Support.* Poster Presentation, November 2019. Reimagining Health Conference and Symposium, Phoenix, AZ.
9. **Ellingson KD**, Pogreba-Brown K, Gerba CP, Elliot SP. *A Novel Antimicrobial Surface Coating Demonstrates Reduction of Microbial Burden and Healthcare-Associated Infections at Two High-acuity Hospitals*. Poster presentation. ID Week, October 2019. Washington, DC.
10. Perry DA, Kirsch D, **Ellingson K**, Buser G, Cassidy M, Tran D, Beldavs Z, Pfeiffer C. *Survey of Multidrug-resistant Organism Admission Screening and Preoperative S. aureus Decolonization*. Society for Healthcare Epidemiology (SHEA) conference. Poster presentation. March 2017. St. Louis, MO.
11. Kirsch D, Cassidy M, Buser G, **Ellingson K**, Tran D, Beldavs Z, Pfeiffer C. *The Antibiogram: A Survey of Analysis, Presentation, and Distribution Methods across Oregon Hospitals.* Society for Healthcare Epidemiology (SHEA) conference. Poster presentation. March 2017. St. Louis, MO.

**INVITED TALKS AND SEMINARS**

1. *Combating Candida auris in Long-Term Care: State of the Science & Frontline Efforts*. Arizona Healthcare Association Infection Preventionist Summit. June 6, 2024. Phoenix, AZ
2. *Participation and Engagement of Underrepresented Communities in Cognitive Aging Research*. Precision Aging Network Annual Meeting. June 5, 2024. Tucson, AZ
3. *Healthcare-associated Infections and Antimicrobial Resistance*. Network Arizona Biosecurity Conference, October 20, 2022. Phoenix, AZ
4. *Infectious Diseases and Essential Worker Health: Current Landscape, Issues on the Horizon, and Building Workforce Resilience*. Western Region Jobs Program Conference, October 18, 2022. Sacramento, CA
5. *Sustainable Infrastructure for Protecting Frontline Workers from Infectious Diseases*. National Farmworker Jobs Program, August 16, 2022. Phoenix, AZ
6. *Antibiotic Use in the US and Mexico in the COVID-19 Era – Unique Patterns in the Border Region*. First Congress of Chronic and Infectious Diseases. University of Sonora-Hermosillo. September 2, 2021 (*remote conference*).

1. *Promoting infection prevention while maintaining interpersonal connection in long-term care: A balancing act*. Collaborative for Global Adaptive Pandemic Solutions (CGAPS) Workshop on Future Preparedness: Pandemic End of Life Care and Bereavement. May 17, 2021 *(remote conference)*.
2. *Pandemic Infection Prevention in Assisted Living: Lessons Learned & the Road Ahead*. Southwest Nursing Consultants Spring Continuing Education Class. May 14, 2021 *(remote conference)*.
3. *Binational collaboration to understand antibiotic use and resistance in the border region*. Binational Network for Healthy Communities in Sonora-Arizona Border Region Annual Conference. March 4, 2021 *(remote conference)*.
4. *Vaccine Rollout in Long-Term Care*. LawCats Live Panel. University of Arizona. February 5, 2021 *(remote conference)*.
5. *COVID-19 Prevention Webinar: UA Global Seminar.* Speaker and Panelist (350+ global affiliate attendees). April 1, 2020. University of Arizona. Tucson, AZ *(remote conference)*.
6. *Antimicrobial Resistance and Stewardship: Current Challenges and Future Solutions*. February 24, 2020. Pima County Health Department. Tucson, AZ
7. *COVID-19 Epidemiology Overview*. February 16, 2020. Chinese Cultural Center. Tucson, AZ
8. *2019 Novel Coronavirus: Overview & Panel Discussion*. February 10, 2020. University of Arizona College of Public Health. Tucson, AZ
9. *Rise of Antibiotic Resistance: Shared Challenges and Solutions Across Borders.* January 14, 2020. University of Sonora, Hermosillo. Hermosillo, Mexico.
10. *Antimicrobial and Opiate Stewardship in Healthcare.* October 26, 2019. Arizona Alliance for Community Health Centers. Phoenix, AZ
11. *Hepatitis A and Bed Bugs: Prevention Strategies.* October 22, 2019. Tucson House. Tucson, AZ
12. *Infectious Disease Epidemiology Across Healthcare Settings*. October 1, 2019. Infectious Disease Grand Rounds. University of Arizona College of Medicine. Tucson, AZ
13. *Outbreaks in Immigration Detention Facilities: Increasing Prevention and Awareness.* April 29, 2019. The Florence Project. Tucson, AZ
14. *One Health Overview and Applications.* October 12, 2018. Pima County Health Department. Tucson, AZ
15. *Steering a Transition in Antibiotic Stewardship.* COBINA Binational Health Meeting. ISSSTESON Hospital. August 16, 2017. Nogales, Sonora, Mexico
16. *Antibiotic Stewardship: A Cultural Shift of Hearts and Minds.* Promotora de Salud Workshop, Mariposa Community Health Center. May 15, 2017. Nogales, AZ
17. *A Primer on Healthcare-Associated Infections: Detection, Prevention & Outbreak Response.* College-wide Seminar, Mel & Enid Zukerman College of Public Health, University of Arizona. April 12, 2017. Tucson, AZ
18. *Bold Bugs, Less Blood, and the Role of Healthcare Epidemiology in Patient Safety.* Animal and Comparative Biomedical Sciences Seminar, University of Arizona. December 5, 2016. Tucson, AZ

awarded grants and contracts (since 2017)

**FEDERAL**

*Community-Based Participatory Research to Enhance Vaccine Uptake Across the Lifespan through Innovative Points of Access and Altering Norms in Rural and Border Regions*  
Centers for Disease Control and Prevention (CDC): U48DP006882   
Funding Period: 9/30/2024– 9/29/2029 ($1,750,000)

Principal Investigator: Ellingson & Nuno  
Role: Co-Principal Investigator

FTE: 18%

*Precision Aging Network: Closing the Gap Between Healthspan and Human Lifespan*

National Institutes of Health (NIH) National Institute on Aging (NIA): U19AG065169

Funding Period: 9/30/2021 – 8/31/2026 ($60,014,605)

Principal Investigator: Barnes

Prospective Role: Co-Investigator

FTE: 5-15%

*2024 Arizona Farmworker Enumeration Profiles Study (AZ-FEPS)*

Centers for Disease Control and Prevention (CDC) via ADHS:

Funding Period: 06/01/2023 – 8/31/2024 ($450,000)

Role: PI

FTE: 15%

*2024 Supplement to Arizona Farmworker Enumeration Profiles Study (AZ-FEPS)*

Portable Practical Education Preparation (PPEP, Inc.):

Funding Period: 06/01/2024 – 8/31/2024 ($68,000)

Role: PI

FTE: 10%

*National Initiative to Address COVID-19 Health Disparities Among Populations at High Risk and Underserved: Applied Public Health Academic Partnership*

Centers for Disease Control and Prevention (CDC) via Yuma County: CT-HD-22-059-00

Funding Period: 08/01/2022 – 5/31/2024 ($130,000)

Role: PI

FTE: 15%

*National Initiative to Address COVID-19 Health Disparities Among Populations at High Risk and Underserved: Applied Public Health Academic Partnership*

Centers for Disease Control and Prevention (CDC) via Pima County: CT-HD-22-059-00

Funding Period: 10/15/2021 – 5/31/2024 ($108,064)

Principal Investigators: Ellingson, Ernst & Pogreba-Brown  
Role: Co-PI

FTE: 2-8%

*Respiratory Virus Transmission Network (RVTN – Sentinel)*

Centers for Disease Control and Prevention (CDC): 75D30121C11656  
Funding Period: 8/1/2021 – 8/31/2023 ($626,825)

Principal Investigators: Ellingson and Lutrick

Role: MPI for Arizona site

FTE: 15%

*Prospective Cohort to Evaluate the Immunogenicity and Effectiveness of COVID-19 Vaccines among Previously Infected and Uninfected Essential and Frontline Workers and Children in Arizona*

Centers for Disease Control and Prevention (CDC): 75D30120C08379  
Funding Period: 7/15/2021 – 12/31/2023 ($15,002,922)

Principal Investigator: Burgess  
Role: Co-Investigator

FTE: 20-30%

*Per- and Polyfluoroalkyl substances (PFAS) Exposures and COVID-19 in Firefighters*

NIH National Institute of Environmental Health Sciences (NIEHS): R21ES032680

Funding Period: 9/8/2020 – 8/31/2022 ($404,799)

Principal Investigator: Burgess

Role: Co-Investigator

FTE: 5%

*Prospective Cohort to Assess Novel and Repeated SARS-CoV-2 Infection and COVID-19 Illness within a US State or Region*Centers for Disease Control and Prevention (CDC): 75D30120C08379  
Funding Period: 7/1/2020 – 6/30/2021 ($7,700,000)

Principal Investigator: Burgess  
Role: Co-Investigator

FTE: 10-20%

*Building Local Operational Capacity for Prevention of COVID-19*National Association for City and County Health Officials (NACCHO): 6NU38OT000306-02-08

Subcontract through Pima County Health Department

Funding Period: 8/1/2020 – 9/30/2021 ($54,761)

Principal Investigator: Ellingson

Role: PI

FTE: 15%

*Costs of healthcare-associated infections in Latin American and Caribbean countries: a systematic review* (Contract)

Pan American Health Organization (PAHO)

Funding Period: 1/15/2021 – 11/30/2021 ($11,000)

Principal Investigator: Ellingson

Role: PI

FTE: 0%

*Combined Surface Sampling and Quantitative Microbial Risk Assessment Modeling to Optimize Surface Cleaning for Targeted HAI Reduction*

Centers for Disease Control and Prevention (CDC): 75D30118C02916

Principal Investigator: Verhougstraete

Funding Period: 09/30/2018 – 12/31/2019 ($509,990)

Role: Co-Investigator

FTE: 5%

*Rapid Lateral Flow Assay for Rapid Diagnosis of Coccidioidomycosis to Reduce the Unnecessary Use of Antibacterial Drugs*

Centers for Disease Control and Prevention: 75D30118C02899

Funding Period: 09/30/2018 – 09/29/2020 ($206,409)

Principal Investigator: Galgiani

Role: Co-Investigator

FTE: 10%

**STATE**

*Antibiotic Stewardship in Arizona Skilled Nursing Facilities*Arizona Biomedical Research Commission (ABRC): ADHS18-198854

Funding Period: 4/1/2018 – 3/31/2022 ($386,652)

Principal Investigator: Ellingson

Role: PI

FTE: 20%

*Antibiotic Resistance Patterns in Arizona Healthcare Facilities along the US-Mexico Border: Harnessing Data for Action and Advocacy*  
Arizona Health Education Center (Awarded 5/2/2019)  
Funding Period: 5/1/2019 – 2/28/2021 ($4911)

Principal Investigator: Ellingson  
Role: PI

FTE: 0%

**UNIVERSITY**

*Heat Risk and Resilience in Arizona Farmworkers*

University of Arizona Southwest Center for Climate Change and Health Pilot Grant

Funding Period: 01/01/2025 – 12/31/2025 ($25,000)

Principal Investigator: Ellingson  
Role: PI

*Antimicrobial Use and Stewardship in Animal Shelters*

University of Arizona One Health Pilot Grant

Funding Period: 08/01/2024 – 07/31/2025 ($50,000)

Principal Investigator: Ellingson  
Role: PI

*Experiential Learning in Infection Prevention and Control through a Structured Internship Program*

Mel and Enid Zuckerman College of Public Health Dean’s Strategic Initiatives & Innovation Fund

Funding Period: 08/21/2023 – 08/17/2024 ($45,706)

Principal Investigator: Ellingson  
Role: PI

*Binational Antibiotic Resistance and Use Patterns in Arizona’s Border Region and in Sonora, Mexico*  
University of Arizona Research, Discovery and Innovation Office

Accelerate for Success Award  
Funding Period: 7/1/2019 – 6/30/2021 ($21,863)

Principal Investigator: Ellingson  
Role: PI

*Assessing public health risk from sewage spills along the Mexico-Arizona border*

University of Arizona Research, Discovery and Innovation Office  
International Program Development Award  
Funding Period: 7/1/2019 – 6/30/2021 ($49,946)

Principal Investigator: McLain  
Role: Co-Investigator

*Towards Sustainable Antibiotic Stewardship in Arizona Nursing Homes*

University of Arizona Faculty Seed Grant

Funding Period: 07/01/2017 – 06/30/2018 ($9994.85)

Principal Investigator: Ellingson  
Role: PI

**INDUSTRY**

*External Evaluation of the Impact of a Novel Surface Disinfectant on Healthcare-associated Infections and Bioburden at Two Large Urban Hospitals*

Applied BioScience

Funding Period: 10/1/2018 – 9/30/2019 ($4000)

Principal Investigator: Ellingson  
Role: PI

courses (since 2017)

|  |  |  |  |
| --- | --- | --- | --- |
| ***Course*  (listing)** | **# of Times Taught** | **Format** | **Years Taught** |
| *Infections Prevention in Healthcare* (EPID 430/530) | 2 | In-Person | 2024, 2025 |
| *Infections and Epidemics* (EPID 479) | 10 | In-Person, Online, Hybrid, Study Abroad | 2018-2025 |
| *Plagues, Peoples, and Society*  (MIC 195F) | 2 | In-Person | 2018-2019 |
| *Epidemiology Seminar*  (EPID 696A) | 6 | In-Person, Online | 2017-19, ‘23, ‘25 |
| *Border Health Service Learning* (EPID/PHP 579C) | 6 | In-Person Service Learning, Hybrid | 2019-2025 |
| *One Health Foundations*  (EPID/EHS 445/545) | 4 | Online | 2021-2023 |