**Robert R. Kelley, Ph.D.**

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Department of Computer Science

Bellarmine University

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# EDUCATION

2004-2010 Ph.D. in Computer Engineering and Computer Science, University of Louisville, Louisville, KY

1994-1998 M.S. in Library and Information Science, University of Kentucky, Lexington, KY

1988-1992 B.A. in English, University of Louisville, Louisville, KY

# ACADEMIC APPOINTMENTS

August 2018 – Present Assistant Professor of Computer Science

Department of Computer Science

Bellarmine University

Louisville, Kentucky

August 2016 – May 2018 Assistant Professor of Computer Science

Department of Mathematics and Computer Science

St. Mary’s College of Maryland

St. Mary’s City, MD

January 2012 – July 2016 Assistant Professor of Medicine

Division of Infectious Diseases

Department of Medicine

University of Louisville

Louisville, KY

April 2015 – July 2016 Director of Data Engineering and Visual Analytics

Global Health Research Organization

Global Health Center

University of Louisville

Louisville, KY

March 2012 – March 2015 Assistant Director of Data Management and Analysis

Clinical and Translational Research Support Unit

Division of Infectious Diseases

Department of Medicine

University of Louisville

Louisville, KY

July 2010 – December 2011 Post-Doctoral Associate

Speed School of Engineering

University of Louisville

Louisville, KY

August 2010 – May 2012 Adjunct Instructor

School of Arts and Sciences

Bellarmine University

Louisville, KY

September 2004 – December 2010 Instructor

Computer Science Department

Sullivan University

Louisville, KY

August 2003 – August 2004 Instructor

Computer Science Department

McKendree College

Louisville, KY

October 2000 – July 2003 Adjunct Instructor

Computer Science Department

McKendree College

Louisville, KY

# OTHER POSITIONS AND EMPLOYMENT

January 2010 – June 2010 Graduate Research Assistant

Speed School of Engineering

University of Louisville

Louisville, KY

April 2000 – September 2003 Director of Information Technology

McKendree College, Kentucky Campuses

Louisville, KY

August 1997 – March 2000 Network Administrator, DMHMR

Research and Data Management Center

University of Kentucky

Frankfort, KY

October 1996 – August 1997 Trainer/User Support Technician

Research and Data Management Center

University of Kentucky

Frankfort, KY

February 1996 – September 1996 Trainer/User Support Technician

Analysts International Corporation

Lexington, KY

February 1995 – January 1996 Research Associate

The Council of State Governments

Lexington, KY

July 1993 – January 1995 Legal Assistant

Stites and Harbison

Lexington, KY

July 1991 – June 1993 Legal Assistant

Mulloy, Walz, Wetterer, Fore & Schwartz

Louisville, KY

# PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

January 2005 – Present Institute of Electronic and Electrical Engineers (IEEE)

January 2005 – Present Association of Computing Machinery (ACM)

January 2014 – 2016 American Medical Informatics Association (AMIA)

# HONORS AND AWARDS

2011 2011 Logistics and Distribution Institute Staff Award

# COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

March 2017 – May 2018 Faculty Adviser, Robotics Club, St. Mary’s College of Maryland

January 2006 – December 2006 Department Chair, Computer Science, Sullivan University

January 2005 – December 2007 Externship Coordinator, Computer Science, Sullivan University

September 2004 – December 2007 Suspension and Appeals Committee, Sullivan University

September 2007 – December 2007 Student Retention Committee, Sullivan University

August 2003 – August 2004 Local Department Chair, Computer Science McKendree College

January 2002 – July 2003 Faculty Search Committee, McKendree College

July 2003 – August 2004 Distance Learning Implementation Committee, McKendree College

# EDUCATIONAL ACTIVITIES

**Courses Taught**

**St. Mary’s College of Maryland**

**Undergraduate**

**Spring 2018**

COSC 130 – Introduction to Computer Science II

COSC 201 – Algorithms and Data Structures

COSC 480 – Interaction Design

**Fall 2017**

COSC 120 – Introduction to Computer Science I

COSC 450 – Theory of Database Management Systems

COSC 480 – Special Topics: Machine Learning

**Spring 2017**

COSC 130 – Introduction to Computer Science II

COSC 335 – Operating Systems

**Fall 2016**

COSC 120 – Introduction to Computer Science I

COSC 420 – Distributed and Parallel Computing

COSC 480 – Data Visualization

**University of Louisville**

**Graduate**

EM 694 Information Technology Management (Instructor, Course Developer)

CECS 617 Mobile Computing (Instructor)

**Bellarmine University**

**Undergraduate**

CS131 Object Oriented Programming (Instructor)

CS 300 Database Management Systems (Instructor)

CS 320 Artificial Intelligence (Instructor)

CS 400 Software Engineering (Instructor)

CS 305 Assembly Language Programming (Instructor)

CS 310 Operating Systems (Instructor)

**Graduate**

AIT 510 Web Programming (Instructor)

AIT 542 Network Security (Instructor)

**Sullivan University**

**Undergraduate**

CSC 105 Introduction to Programming (Instructor, Course Developer)

CSC 205 Introduction to Networking and Telecommunications (Instructor, Course Developer)

CSC 210 Database Design (Instructor, Course Developer)

CSC 230 Internet Design (Instructor, Course Developer)

CSC 242 Object-Oriented Programming (Instructor, Course Developer)

CSC 272 Principles of System Design (Instructor, Course Developer)

CSC 303 Operating Systems (Instructor, Course Developer)

CSC 306 Systems Architecture (Instructor, Course Developer)

CSC 311 Fundamentals of E-Commerce (Instructor, Course Developer)

CSC 320 Data Structures (Instructor, Course Developer)

CSC 405 Advanced Networking and Telecommunications (Instructor, Course Developer)

CSC 410 Advanced Database Design (Instructor, Course Developer)

CSC 440 Artificial Intelligence (Instructor, Course Developer)

CSC 484 Technology Externship (Instructor, Course Developer)

**McKendree College (now University)**

**Undergraduate**

CSI 101 Introduction to Word Processing

CSI 102 Introduction to Electronic Spreadsheets

CSI 104 Introduction to Presentation Graphics

CSI 130 Introduction to Computing I

CSI 230 Introduction to Computing II

CSI 335 Structure of Operating Systems

CSI 369 Social, Legal, and Ethical Issues of Computing

CSI 450 Computer Networking and Communications

CSI 490 Senior Seminar in CIS

BUS 410 Management Information Systems

**Advising**

Computer Science Faculty Advisor, St. Mary’s College of Maryland

Computer Science Faculty Advisor, Sullivan University

# GRANTS AND CONTRACTS

**Grants**

**Past**

|  |  |  |
| --- | --- | --- |
| 1. | Title: | “Impact of oxidative stress on HIV-induced lung disease |
| Period: | September 2013 – July 2016 |
| Award: | $2,815,568 |
| Sponsor: | National Institutes of Health |
| Role: | Co-Investigator |
| Term: | 5 Years |
| 2. | Title: | “Anxiety in children with autistic spectrum disorders (ASD) and Asperger’s Disorder” |
| Period: | July 2013- June 2014 |
| Award: | $14,091.50 |
| Sponsor: | University of Louisville Pediatric Program Research Group |
| Role: | Co-investigator |
| Term: | 1 Year |
| 3. | Title: | “Strengthening Surveillance for Diseases Among Newly-Arrived Immigrants and Refugees” |
| Period: | Oct 2012-July 2016 |
| Award: | $49,578 per year |
| Sponsor: | Centers for Disease Control and Prevention |
| Role: | Co-investigator |
| Term: | 5 Years (annual renewal) |
| 4. | Title: | “Anti-Influenza Therapy in Hospitalized Patients with Community-Acquired Pneumonia” |
| Period: | Sept 2012 – July 2016 |
| Award: | $1,499,397 |
| Sponsor: | Centers for Disease Control and Prevention (CDC) |
| Role: | Sub-investigator |
| Term: | 3 Years |

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| 5. | Title: | “Unified Incident Command Decision Support (UICDS) System Evaluation” |
| Period: | November 2012- January 2103 |
| Award: | Total: $50,000.00 |
| Sponsor: | National Institute of Hometown Security, Department of Homeland Security |
| Role: | Co-Principle Investigator |
| Term: | 3 Months |
| 6. | Title: | “Emergency Countermeasures Staffing Plan” |
| Period: | January 2012 – July 2012 |
| Award: | $299,558 |
| Sponsor: | United States Department of Health and Human Services Centers for Disease Control and Prevention |
| Role: | Sub-investigator |
| Term: | 2 Years |
| 7. | Title: | “Podpocket, a Point of Dispense Toolkit” |
| Period: | 2011 |
| Award: | $4000.00 |
| Sponsor: | United States Department of Health and Human Services Centers for Disease Control and Prevention |
| Role: | Sub-investigator |
| Term: | 3 Months |
| 8. | Title: | “Real-time Decision Support System for Healthcare and Public Health Sector” |
| Period: | 2010-2011 |
| Award: | $3,300,000.00 |
| Sponsor: | United States Department of Homeland Security/Department of Hometown Security. |
| Role: | Postdoctoral Associate |
| Term: | 3 Years |

# ABSTRACTS AND PRESENTATIONS

1. Visualizing the Archive: Using Digital Humanities to Understand the Exclusion of Rwandan Authors with the Scholarly Conversations about the 1994 Genocide. Macleod GS and Kelley RR, The 44th Meeting of the African Literature Association, Washington DC. May 2018.
2. Invited Presentation: SSSFH Frequency Hopping Selection for Wireless Sensor Network Security, Seminar in Computer Science and Engineering, University of Louisville, October 2010.
3. Invited Presentation: How do you show your data? Kentucky Infection Prevention Boot Camp, August, 2013.

# POSTERS

1. Harting J, Fernandez F, Kelley RR, Wiemken TL, Peyrani P, Ramirez JA. A Pilot Study Evaluating Televancin for the Treatment of Methicillin-Resistant Staphylococcus aureus Osteomyelitis: Clinical Outcomes and Safety. ID Week 2015, San Diego, CA, October 7-11, 2015.
2. Lohr WD, Wiemken TL, **Kelley RR**, Daniels K, Sears L. A Validation Study of the Scared Child and Parent Versions to Achenbach Global Psychopathology Scales in Children with Autistic Spectrum Disorders and Asperger’s Disorder. New Research Poster Presentation: AACCAP 62nd Annual Meeting, San Antonio, TX, October 26-31, 2015.
3. Britton J, **Kelley RR**, Wiemken T, Knecht A, Bryan D, Groeschen S, Ng Hang E, Kendra S, Barker R, Carrico R. Global Health Initiative: Challenges with the Management of a Vaccine and International Health and Travel Clinic. Poster Presentation: Research Louisville. September, 2014.
4. Ackerman C, Guinn B, Peyrani P, Wiemken T, **Kelley RR**, Arnold F, Carrico R, Ramirez J. Patients hospitalized with lower respiratory tract infections in Jefferson County: The impact of population density. Poster Presentation: Research Louisville. September, 2014.
5. Binford L, Carrico R, Balcom D, **Kelley RR**, Mattingly W, Peyrani P, Ramirez J, Wiemken T. Understanding why patients accept vaccines in Jefferson County: A socio-behavioral approach. Poster Presentation: Research Louisville. September, 2014.
6. Buckner K, **Kelley RR**, Binford L, Guinn B, Gonzalez J, Ackerman C, Peyrani P, Carrico R, Ramirez J, Wiemken T. The economic burden of adult hospitalization due to pneumonia in acute care hospitals in Jefferson County. Poster Presentation: Research Louisville. September, 2014.
7. Elkhawas I, Reyes E, Mattingly W, Mohiuddin A, Arnold F, Carrico R, Peyrani P, Wiemken T, **Kelley RR**, Ramirez J. Impact of Macrolides on Clinical Outcomes of Hospitalized Patients with Community- Acquired Pneumonia and Non-Streptococcus pneumoniae Bacteremia: Results from the CAPO International Study. Poster Presentation: Research Louisville. September, 2014.
8. Ford R, Carrico R, Rodriguez Hernandez L, Fuentes A, Rivera Contreras K, Khaleefah M, **Kelley RR**, Wiemken T, Peyrani P, Bosson R. Global Health Initiative: Assessment of the Health Conditions Among the Refugee Population Resettled in Louisville Kentucky. Poster Presentation: Research Louisville. September, 2014.
9. Gonzalez J, Ahmed M, Pena S, Srinivasan K, King D, Elkhawas I, **Kelley RR**, Peyrani P, Wiemken T, Ramirez J. A Population-Based Study In Jefferson County to Estimate the Number of Hospitalizations due to Community-Acquired Pneumonia in the United States. Poster Presentation: Research Louisville. September, 2014.
10. Guinn B, Wiemken T, **Kelley RR**, Binford L, Arnold F, Carrico R, Peyrani P, Buckner K, Ackerman C, Ramirez J. Levels of Air Pollution in Jefferson County, Kentucky Are Associated with Increased Risk for Lower Respiratory Tract Infection Hospitalizations. Poster Presentation: Research Louisville. September, 2014.
11. Lanceta J, Guinn B, Wiemken T, **Kelley RR**, Salunkhe V, Pena S, Rodriguez L, Binford L, Ackerman C, Ramirez J. Patients hospitalized with lower respiratory tract infections in Jefferson County: The impact of Census tract-level demographic characteristics. Poster Presentation: Research Louisville. September, 2014.
12. Mattingly W, **Kelley RR**, Wiemken T, Buckner K, Guinn B, Binford L, Grassman M, Kincaid J, Lanceta J, Ramirez J. Development Of Applications To Facilitate Clinical Research: The Pneumonia In Jefferson County Clinical Research Enrollment App. Poster Presentation: Research Louisville. September, 2014.
13. Perez J, Harting J, Wiemken T, **Kelley RR**, Peyrani P, Ramirez J. The association of endocarditis with vertebral osteomyelitis: A Case Report from the Bone and Joint International Organization Study. BAJIO. Poster Presentation: Research Louisville. September, 2014.
14. Perez Rivera R, Guinn B, Wiemken T, **Kelley RR**, Ahmed M, Gonzalez J, Lanceta J, Salunkhe V, Binford L, Ramirez J. Impact of economic factors on the incidence of hospitalization for lower respiratory tract infection in Jefferson County. Poster Presentation: Research Louisville. September, 2014.
15. Srinivasan K, Reyes E, Rivera R, Mattingly W, Buckner K, Carrico R, Peyrani P, **Kelley RR**, Wiemken T, Ramirez J. Challenges in Multicenter, Community-Based Clinical Research in Jefferson County, KY: A Method for Auditing the Consent Process. Poster Presentation: Research Louisville. September, 2014.
16. Bininashvili T, Perez San Juan J, Gnoni M, Steinbrunner J, Rodriguez-Hernandez L, **Kelley RR**, Wiemken T, Gonzales Y, Friedstorm S, Ramirez J. Community Acquired Pneumonia in Pregnancy: Impact of Influenza on Clinical Outcomes. Poster Presentation: Research Louisville. September, 2014.
17. Britto J, Beavin L, Husainy R, Fernandez F, Harting J, **Kelley RR**, Wiemken T, Ramirez J, Hicks A, Kim K. Clinical Characteristics, Microbiology, and Outcomes in Patients with Diabetic Foot Osteomyelitis. Poster Presentation: Research Louisville. September, 2014.
18. Harting J, **Kelley RR**, Wiemken T, Christensen D, Gnoni M, Ramirez J. High-Dose Ertapenem is Safe and Effective for Treatment of Osteomyelitis and Prosthetic Joint Infections. Poster Presentation: Research Louisville. September, 2014.
19. Husainy R, Fernandez F, Britto J, Beavin L, Takruri Y, **Kelley RR**, Harting J, Peyrani P, Nakamatsu R, Arnold F. Clinical Features and Outcomes of Adults with Group B Streptococcus Bone and Joint Infection. Poster Presentation: Research Louisville. September, 2014.
20. **Kelley R**, Wiemken TL, Peyrani P, Carrico R, Curran D, Khan M, Otero D, Pacholski E, Coats D. Challenges with creating a Clinical and Translational Research Support Center in the University of Louisville Department of Medicine. Research Louisville 2013.
21. Abhinav O, Mariko C, Harting J, **Kelley R,** Hicks A, Wiemken T, Nakamatsu R, Christensen D, Ramirez J. Late Outcomes in Patients with Osteomyelitis: Retrospective Analysis of the Bone and Joint Infection Organization (BAJIO) Group. Research Louisville 2013.
22. Griffin A, Gnoni M, Mariko C, Harting J, **Kelley R**, Wiemken T, Christensen D, Ramirez J. Tigecycline in the Management of Osteomyelitis: A Case Series from the Bone and Joint Infection (BAJIO) Database. Research Louisville 2013.
23. Christensen D, Harting J, Mariko C, **Kelley R**, Wiemken T, Julio Ramirez J. The Bone & Joint Program at the University of Louisville: The Bone and Joint Infection (BAJIO) Database. Research Louisville 2013.
24. Otero D, Husainy R, Fernandez F, Britto J, Gnoni M, Maringanti S, Thompson K**, Kelley R**, Raghuram A, Peyrani P. Co-infection with Hepatitis C Virus is not associated with Immunological Failure in HIV Female Patients on Antiretroviral Therapy. Research Louisville 2013.
25. Pacholski E, Gonzalez J, Hernandez L, Otero D, Contreras K, Kolikonda M, **Kelley R**, Ramirez J, Carrico R, Wiemken T. The Evaluation of the Effectiveness of the Trivalent Influenza Vaccine for the Prevention of Hospitalizations Due to Influenza Pneumonia; Results from the Rapid Empiric Treatment with Oseltamivir Study (RETOS). Research Louisville 2013.
26. Arnold F, Ramirez J, Fernandez-Botran R, Rane M, Uriarte S, **Kelley R**, Wiemken T, Peyrani P, Bordon J,The Community-Acquired Pneumonia Inflammatory Study Group (CAPISG). Macrolide Immunomodulation and Outcomes in Hospitalized Patients with Community-Acquired Pneumonia. Research Louisville 2013.
27. Fernandez F, Britto J, Otero D, Baez J, Rivera K, Rodriguez L, **Kelley R**, Wiemken T, Peyrani P, Ramirez J. Impact of Oseltamivir Treatment on Clinical Outcomes of Hospitalized Patients with Community Acquired Pneumonia due to Influenza. Research Louisville 2013.
28. Baez J, Pacholski E, Kolikonda M, Rodriguez L, Fernandez F, **Kelley R**, Wiemken T, Peyrani P, Ramirez J, Cavallazzi R. Mortality Differences among Hospitalized Patients with Severe Community-acquired Pneumonia in Three World Regions: Results from the Community-Acquired Pneumonia Organization (CAPO) International Cohort Study. Research Louisville 2013.
29. Harting J, Mariko C, **Kelley R**, Christensen D. Mandible Osteomyelitis: Retrospective Analysis of the Bone and Joint Infection (BAJIO) Database. Research Louisville 2013.
30. Westhusing K, Balcom D, Macchiavelli A, Britto J, Hussainy R, Kolikonda M, **Kelley R**, Ramirez J, Carrico R, Wiemken T. Understanding Why Patients Accept Vaccination: A Socio-Behavioral Approach at the University of Louisville Vaccine and International Health and Travel Center. Research Louisville 2013.
31. Gnoni M, Kadali S, Perez J, Abdelfattah R, Curran D, Kolikonda M, Uppatla S, Peddapalli S, **Kelley R**, Paula Peyrani, MD The Importance of Viral Etiology in Hospitalized Patients with Community Acquired Pneumonia in Jefferson County. Research Louisville 2013.
32. Medina S, Gnoni M, Mariko C, Harting J, Newman D, **Kelley R**, Christensen D, Ramirez J. Ertapenem for the Treatment of Osteomyelitis: A Retrospective Analysis of the Bone And Joint Infection Organization (BAJIO) Database. Research Louisville 2013.
33. Ford R, Bosson R, Carrico R, Ineza Y, Ackerman C, Harrell A, Boeshart T, **Kelley R**, Wiemken T, Peyrani P. Assessment of the Health of the Refugee Population Resettled in Kentucky. Research Louisville 2013.
34. Carrico R, Ineza Y, Ackerman C, Harrell A, Boeshart T, Ford R, Westhusing K, **Kelley R**, Wiemken T, Peyrani P. Addressing the Challenges of Refugee Immunization: The University of Louisville Refugee Health and Immunization Program. Research Louisville 2013.
35. Kadali S, Abdelfattah R, Gnoni M, Fernandez F, Perez J, Jonsson C, Summersgill J, **Kelley R**, Wiemken T, Peyrani P, Influenza Virus: A Significant Etiology in Adult Patients Hospitalized with Lower Respiratory Tract Infections in Jefferson County, Kentucky. Research Louisville 2013.
36. Wiemken T , Jonsson C, **Kelley R**, Peyrani P, Carrico R, Ramirez J. Prior Influenza Vaccination is Associated with Increased Detection of Non-Influenza Respiratory Viruses in Hospitalized Patients with Lower Respiratory Tract Infections: Results from the Rapid Empiric Treatment with Oseltamivir Study (RETOS). Research Louisville 2013.
37. Wiemken T, Pacholski E, **Kelley R**, Clay A, Daniels K, Bromilow M, Ramirez J. Comparing Cleaning and Disinfection using the Traditional Cloth and Bucket Method versus the Ready to Use Wipe Method: Process Compliance and Time-Related Costs. Research Louisville 2013.
38. Wiemken T, **Kelley R**, Peyrani P, Chaves S, Fry A, Ramirez J. Impact of temperature and humidity on the incidence of influenza in hospitalized patients with lower respiratory tract infections. ID Week 2012, San Diego, CA, October 17-21, 2012.
39. Perez J, Hussain S, Abdelfattah R, Ford R, Andriakos B,Danger-Guillen M, **Kelley R**, Nakamatsu R. Epidemiological and Clinical characteristics of women with HIV. WINGS Cohort Study. Poster Presentation: Research Louisville 2012.
40. Jodhani J, Abdelfattah R, Gianella F, Holloway A, **Kelley R**, Peyrani P. Impact of Glycemic Control on the Outcomes of Hospitalized Patients with CAP: Results from the CAPO International Cohort Study. Poster Presentation: Research Louisville 2012.
41. Gianella F, Ford R, Perez J, Hussain L, Gunnison A, Harting J, **Kelley R.** The Impact of Heroin/Cocaine Abuse in the Progression of HIV Disease Among Females: Results from the Wings Clinic Women’s Cohort (WCWC) Study. Poster Presentation: Research Louisville 2012.

# PUBLICATIONS

**Peer-reviewed**

1. Arnold FW, Wiemken TL, **Kelley RR**, Peyrani P, Mattingly WA, Ramirez JA, "Macrolide therapy is associated with lower mortality in community-acquired bacteraemic pneumonia," *Respiratory Medicine,* vol. 40, pp. 115-121, 2018.
2. Ramirez JA, Wiemken TL, Peyrani P, Arnold FW, **Kelley RR**, Mattingly WA*, et al.*, "Adults Hospitalized With Pneumonia in the United States: Incidence, Epidemiology, and Mortality," *Clinical Infectious Diseases,* pp. cix647-cix647, 2017.
3. Lohr WD, Daniels K, Wiemken T, Williams PG, **Kelley RR**, Kuravackel G*,* Sears L, "The Screen for Child Anxiety-Related Emotional Disorders Is Sensitive but Not Specific in Identifying Anxiety in Children with High-Functioning Autism Spectrum Disorder: A Pilot Comparison to the Achenbach System of Empirically Based Assessment Scales," *Frontiers in Psychiatry,* vol. 8, 2017-August-02 2017.
4. Harting, J, Fernandez F, Kelley RR, Wiemken TL, Peyrani P, Ramirez JA, “Televancin for the treatment of methicillin-resistant Staphylococcus aureus bone and joint infections”, *Diagnostic Microbiology and Infectious Disease*, vol 89, pp. 294-299, 2017
5. Wiemken TL, Furmanek SP, Carrico RM, Mattingly WA, Persaud AK, Guinn BE, **Kelley RR**, and Ramirez JA. "Process control charts in infection prevention: Make it simple to make it happen." *American Journal of Infection Control* 45(3) (2017): 216-221.
6. Wiemken TL, **Kelley RR**, Fernandez-Botran R, Mattingly WA, Arnold FW, Furmanek SP, Restrepo MI, et al. "Using cluster analysis of cytokines to identify patterns of inflammation in hospitalized patients with community-acquired pneumonia: a pilot study." *The University of Louisville Journal of Respiratory Infections* 1, no. 1 (2017): 3.
7. Perez San Juan J, Rodriguez Hernandez L, Wiemken TL, **Kelley RR**, Fernandez-Botran R, Gnoni M, Peyrani P, et al. "Neutrophil Function in Elderly Patients Hospitalized with Community-Acquired Pneumonia." *The University of Louisville Journal of Respiratory Infections* 1, no. 1 (2017): 3.
8. Arnold FW, Bordon J, Fernandez-Botran R, Rane MJ, Uriarte SM, **Kelley RR**, Wiemken TL, Peyrani P, Ramirez JA, Community-Acquired Pneumonia Inflammatory Study Group. "Macrolide use and neutrophil function/cytokine levels in hospitalized patients with community-acquired pneumonia: a pilot study." *Lung* 194, no. 1 (2016): 155-162.
9. Peyrani PA, Arnold FW, Wiemken TL, **Kelley RR**, Raghuram A, Bhandary A, Babiker A, Bordon J, File TM, Ramirez JA. "Using the Antibiotic Intensity Score to Evaluate Antibiotic Use in Hospitalized Patients With Community-Acquired Pneumonia With Known Versus Unknown Etiology: Results From the Community-Acquired Pneumonia Organization International Cohort Study." In *Open Forum Infectious Diseases*, vol. 3, no. suppl 1, p. 1234. Oxford University Press, 2016.
10. Peyrani P, Raghuram A, Arnold FW, Wiemken TL, **Kelley RR**, Metersky M, Ramirez JA. "Sequential Administration of Beta-Lactams and Macrolides on the Outcomes of Hospitalized Patients With Community-Acquired Pneumonia: Results From the Community-Acquired Pneumonia Organization (CAPO) International Cohort Study." In *Open Forum Infectious Diseases*, vol. 3, no. suppl 1, p. 1236. Oxford University Press, 2016.
11. Peyrani P, Wiemken TL, **Kelley RR**, Raghuram A, Arnold FW, Aliberti S, Chalmers J, Restrepo MI, Bordon J, Ramirez JA. "Do Antiplatelet Medications Prevent Poor Clinical Outcomes in Patients With Community-Acquired Pneumonia? Results From the Community-Acquired Pneumonia Organization International Cohort Study." In *Open Forum Infectious Diseases*, vol. 3, no. suppl 1, p. 906. Oxford University Press, 2016.
12. Peyrani P, Raghuram A, Arnold FW, Wiemken TL, **Kelley RR**, Restrepo MI, Bordon J, Aliberti S, Chalmers J, Ramirez JA. "Clinical Characteristics and Outcomes of Patients With Community-Acquired Pneumonia—Real-Life Versus Food and Drug Administration (FDA) Trials: Results From the Community-Acquired Pneumonia Organization (CAPO) International Cohort Study." In *Open Forum Infectious Diseases*, vol. 3, no. suppl 1, p. 907. Oxford University Press, 2016.

Pfister GJ, Burkes RM, Guinn B, Steele J, **Kelley RR**, Wiemken TL, Saad M, Ramirez JA, Cavallazzi R. "Opioid overdose leading to intensive care unit admission: epidemiology and outcomes." *Journal of Critical Care* 35 (2016): 29-32. PMID: 26553025.

1. Carugati M, Franzetti F, Wiemken T, **Kelley RR**, Peyrani P, Blasi F, Ramirez J, Aliberti S. De-escalation therapy among bacteraemic patients with community-acquired pneumonia. *Clinical Microbiology and Infection.* 2015 Oct 21(10).
2. Mattingly MA, **Kelley RR**, Wiemken TL, Chariker JH, Ramirez JA. Real-Time Enrollment Dashboard for Multisite Clinical Trials. *Contemporary Clinical Trials Communications.* 1 (2015): 17-21.
3. Bordon J, Fernandez-Botran R, Wiemken TL, Peyrani P, Uriarte SM, Arnold FW, Rodriquez-Hernandez L, Rane MJ, **Kelley RR**, Binford LE, Uppatla S, Cavallazzi R, Blasi F, Aliberti S, Restrepo MI, Baileya J, Fazeli S, Mathur A, Rahmani M, Ramirez JA. Bacteremic Pneumococcal Pneumonia: Clinical Outcomes and Inflammatory Response. *Infection*. 2015 Dec 43(6):729-38. PMID 26424683
4. Wiemken TL, Venkatakrisha RJ, **Kelley RR**, Peyrani P, Mattingly WA, Arnold FW, Cabral PW, Cavallazzi R, Bodduluri H, Ramirez JA. The upper respiratory tract microbiome of hospitalized patients with community-acquired pneumonia of unknown aetiology: A pilot study. *Pneumonia*. 2015 Sep 14;6:83-89.
5. Wiemken TL, **Kelley RR**, Carrico RM, Binford LE, Guinn BE, Mattingly WA, Peyrani P, Ramirez JA. Efficacy of a novel skin antiseptic against Carbapenem-resistant Enterobacteriaceae. *American Journal of Infection Control*. 2015 Apr 1;43(4)380-2. PMID: 25660077
6. **Kelley RR**, Mattingly WA, Wiemken TL, Khan MS; Coats D, Curran D, Chariker JH, Ramirez JA. Visual Grids for Managing Data Completeness in Clinical Research Datasets. *Journal of Biomedical Informatics.* 2014 Dec 30. PMID: 25554683.
7. Wiemken TL, Curran DR, **Kelley RR**, Pacholski EB, Carrico RM, Peyrani P, Khan MS, Ramirez JA. Evaluation of the effectiveness of improved hydrogen peroxide in the operating room. *American Journal of Infection Control*. 2014 Sep;42(9):1004-5. PMID: 24939514.
8. Peyrani P, Wiemken TL, **Kelley R**, Zervos MJ, Kett DH, File T, Stein GE, Ford KD, Scerpella EG, Welch V, Ramirez JA. Higher Clinical Success in Patients With Ventilator-Associated Pneumonia Due to Methicillin-Resistant Staphylococcus aureus Treated With Linezolid Compared With Vancomycin: Results From the IMPACT-HAP Study. *Critical Care*. 2014 Jun 10;18(3):R118. PMID: 24916853.
9. Fernandez-Botran R, Uriarte S, Arnold F, Rodriquez-Hernandez L, Rane M, Peyrani P, Wiemken T, **Kelley R**, Uppatla S, Cavallazzi R, Blasi F, Morlacchi L, Aliberti S, Jonsson C, Ramirez JA, Bordon J. Contrasting inflammatory responses in severe and non-severe community-acquired pneumonia. *Inflammation*. 2014 Aug;37(4):1158-66. PMID: 24557760.
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