Jeremy B Provance, MS *Curriculum Vitae*

CONTACT

Twitter: @jeremyprovance
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Offices:

- University of Missouri-Kansas City School of Medicine, 5th Floor, Department of Biomedical & Health Informatics

- Saint Luke's Mid America Heart Institute, 9th Floor, Cardiovascular Outcomes Research Group

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EDUCATION

August 2017-
Doctoral Student
Primary Discipline: Biomedical & Health Informatics (University of Missouri-Kansas City School of Medicine)
Primary Doctoral Mentor: Kim G Smolderen, PhD
Graduate Research Assistantship: Cardiovascular Disease Outcomes Research (Saint Luke's Mid America Heart Institute, Kansas City, Missouri)

August 2015-May 2017
Master of Science
Discipline: Biomedical & Health Informatics (University of Missouri-Kansas City School of Medicine)
Faculty Mentor/Thesis Chair: Kim G Smolderen, PhD
Thesis Committee: Julie Banderas, PharmD; Mark Hoffman, PhD; John Spertus, MD, MPH, FAHA
Thesis: Decisional Conflict in Peripheral Artery Disease: Association with Treatment Choice and Health Status

August 2010-May 2014
Bachelor of Arts
Major: Biology
Institution: William Jewell College (Liberty, Missouri)
Faculty Mentors: Scott Falke, PhD; Tara Allen, PhD
Senior Research Project: Fermentation Vessel Geometry Effects on *Saccharomyces cerevisiae* Metabolites with Gas Chromatograph-Mass Spectroscopy Analysis

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WORK EXPERIENCE

December 2015-
Software Support Analyst
University of Missouri-Kansas City School of Medicine, Department of Biomedical & Health Informatics, Center for Health Insights

- Manage installations of REDCap and i2b2 software platforms for UMKC School of Medicine and Truman Medical Center research stakeholders

- Completed user implementation of i2b2 software package in April 2016

- Experienced with Cerner Health Facts, Microsoft HoloLens, Oculus Rift, Ingenuity Pathways Analysis, Unity, and DNAStar software platforms

January 2015-December 2015
Microbiologist
Boulevard Brewing Company (Kansas City, Missouri)

- Managed microbiology quality control and analysis lab operations

- Propagated proprietary brewery yeast strains

- Implemented qPCR analysis pipeline

- Trained in chemical and physical analysis methods

May 2014-December 2014
Production Brewer
Tallgrass Brewing Company (Manhattan, Kansas)

- Developed post-packaging beer microbial stability program

- Developed environmental and sustainability programs

PEER-REVIEWED PUBLICATIONS

1. **Provance JB**, Spertus JA, Decker C, Jones PG, Smolderen KG. 2019. Assessing Patient Preferences for Shared Decision-Making in Peripheral Artery Disease: Insights from the PORTRAIT Registry. *Circulation: Cardiovascular Quality and Outcomes*. In Press.

2. Ward-Smith P, Hawks JH, Quallich SA, **Provance JB**. 2018. Workplace incivility: Perceptions of urology nurses. *Urological Nursing*. 38(1), 20-26.

3. Hoffman MA, **Provance JB**. 2017. Visualization of Molecular Structures Using HoloLens-based Augmented Reality. *AMIA Jt Summits Trans Sci Proc*. 68-74.

ABSTRACTS

1. **Provance JB**, Spertus JA, Decker C, Buchanan D, Jones P, Smolderen KG. 2019. Preferences and Patterns of Shared Decision-Making in Patients With Peripheral Artery Disease: Insights From the PORTRAIT Registry. *JACC*. 73(9): S1.

2. Peri-Okonny P, Malik A, **Provance JB**, Hejjaji V, Gosch K, Spertus JA, Smolderen KG. 2019. Cross Country Comparison of Leisure Time Physical Activity Trajectories in Patients With Symptomatic Peripheral Artery Disease: Insights From the PORTRAIT Registry. *JACC*. 73(9): S1.

3. Peri-Okonny P, Malik A, **Provance JB**, Hejjaji V, Gosch K, Spertus JA, Smolderen KG. 2019. Leisure Time Physical Activity After Invasive Treatment For Symptomatic Peripheral Artery Disease: Insights From the PORTRAIT Registry. *JACC*. 73(9): S1.

4. Malik AO, Peri-Okonny P, **Provance JB**, Gosch K, Thomas M, Labrosciano C, Spertus JA, Smolderen KG. 2019. The Association of Perceived Stress With Health Status Outcomes in Patients With Peripheral Artery Disease. *JACC.* 73(9): S1.

5. **Provance JB**, Spertus JA, Decker C, Smolderen KG. 2018. Examining Patients' Knowledge With Regards to Peripheral Artery Disease Treatments and Outcomes: Insights From the PORTRAIT Registry. *Circulation.* 138: A15970.

6. **Provance JB**, Spertus JA, Decker C, Smolderen KG. 2018. How Patients Value Different Treatment Goals and Outcomes in Peripheral Artery Disease Outcomes: Insights From the PORTRAIT Registry. *Circulation.* 138: A16038.

7. **Provance JB**, Spertus JA, Safley D, Jones P, Sepucha K, Spatz E, Decker C, Smolderen KG. 2017. Decisional Conflict in Peripheral Artery Disease: Association with Treatment Choice and Health Status in the PORTRAIT Registry. *Circulation.* 136: A20550.

ORAL PRESENTATIONS

1. **Visualization of molecular structures using HoloLens-based augmented reality**, Midwest Bioinformatics Conference, Data Visualization Session, Kansas City, April 2017

2. **Visualization of molecular structures using HoloLens-based augmented reality**, American Medical Informatics Association Joint Summits for Translational Science, Data Visualization Session, San Francisco, March 2017

MODERATED POSTER PRESENTATIONS

1. **Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry**, American College of Cardiology Scientific Sessions, New Orleans, March 2019

POSTER PRESENTATIONS

1. **Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry**, Saint Luke's Hospital Annual Research Day, May 2019

2. **Studying Non-Traumatic, Lower-Limb Amputations in the Cerner Health Facts EMR Database**, UMKC Health Sciences Student Research Summit, April 2019

3. **Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry**, UMKC Health Sciences Student Research Summit, April 2019

4. **Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry**, UMKC Community of Scholars Research Symposium, March 2019

5. **Examining Patients' Knowledge with Regards to Peripheral Artery Disease Treatments and Outcomes: Insights from the PORTRAIT Registry**, American Heart Association Scientific Sessions, Chicago, November 2018

6. **How Patients Value Different Treatment Goals and Outcomes in Peripheral Artery Disease Outcomes: Insights from the PORTRAIT Registry**, American Heart Association Scientific Sessions, Chicago, November 2018

7. **Decisional Conflict in Peripheral Arterial Disease: Association with Treatment Choice and Health Status in the PORTRAIT Registry**, Saint Luke's Hospital Annual Research Day, Kansas City, April 2018

8. **Comparison of a National and a Local Electronic Health Data Warehouse for Clinical Laboratory Quality Improvement Research**, Midwest Bioinformatics Conference, Columbia MO, April 2018

9. **Decisional Conflict in Peripheral Arterial Disease: Association with Treatment Choice and Health Status in the PORTRAIT Registry**, American Heart Association Scientific Sessions, Anaheim, November 2017

AWARDS

2019 - **3rd Place (Poster)**, UMKC Community of Scholars Research Symposium

2019 - **Travel grant funded by Ida Bamberger Memorial Research Award** ($750) to present:

- Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry, American College of Cardiology Scientific Sessions, New Orleans, March 2019

2019 - **Travel grant funded by UMKC School of Graduate Studies** ($800) to present:

- Preferences and Patterns of Shared Decision-Making in Patients with Peripheral Artery Disease: Insights from the PORTRAIT Registry, American College of Cardiology Scientific Sessions, New Orleans, March 2019

2018 - **Travel grant funded by UMKC Student Activity Fee** ($1,200) to present:

- Examining Patients' Knowledge with Regards to Peripheral Artery Disease Treatments and Outcomes: Insights from the PORTRAIT Registry, and
- How Patients Value Different Treatment Goals and Outcomes in Peripheral Artery Disease Outcomes: Insights from the PORTRAIT Registry, American Heart Association Scientific Sessions, Chicago, November 2018

2018 - **Sarah Morrison Student Research Award funded by UMKC Office of Research Administration** ($2,500) to complete the project:

- Studying Amputations in the Cerner Health Facts Database: Overlap with Peripheral Artery Disease, Diabetes, and Prognostic Outcomes

2017 - **Travel grant funded by UMKC Student Activity Fee** ($1,200) to present:

- Decisional Conflict in Peripheral Arterial Disease: Association with Treatment Choice and Health Status in the PORTRAIT Registry, American Heart Association Scientific Sessions, Anaheim, November 2017

2017 - **Travel grant funded by UMKC School of Graduate Studies** ($800) to present:

- Decisional Conflict in Peripheral Arterial Disease: Association with Treatment Choice and Health Status in the PORTRAIT Registry, American Heart Association Scientific Sessions, Anaheim, November 2017

GRANT PARTICIPATION

2016-2018
Electronic Data Warehouse Analyst (0.2 FTE)
Project: Practice-Based Evidence Using Local and National Data for Quality Improvement [press release]
Principal Investigators: Mark Hoffman, PhD; Kamani Lankachandra, MD
Funding Agency: Center for Disease Control (RFA-OE16-1602)
Grant amount: $956,553 (3 years)

TEACHING & GUEST LECTURES

1. **Teaching Assistant**, *MEDB 5512: Clinical Trials (Prof. Kim Smolderen)*, Department of Biomedical & Health Informatics (UMKC School of Medicine), Spring 2019

2. **Generalized Linear Mixed Models-Logistic Regression**, Biostatistics III: Multilevel Analysis Course Student Lecture, November 2018

3. **Introduction to Digital Open Science**, UMKC School of Medicine Multi-disciplinary Seminar Guest Lecture, October 2018

4. **Using Cerner i2b2 and Health Facts for Clinical Trials and General Research**, Clinical Trials Graduate Course Guest Lecture, UMKC School of Medicine, February 2018

5. **Visualization of molecular structures using HoloLens-based augmented reality**, UMKC School of Medicine Multi-disciplinary Seminar Guest Lecture, October 2017

6. **Using the De-identified Cerner i2b2 Database as a Research Resource**, UMKC School of Medicine Year 3 Medical Student Neuroscience Course Guest Lecture, October 2017

REVIEWING & JUDGING

Saint Luke's Hospital Research Day (Poster Judge, May 2019)

American Heart Association, *Circulation: Cardiovascular Quality and Outcomes* (Student Reviewer, 2017-)

American Medical Informatics Association, *Informatics Summits* (Abstract Reviewer, 2017-)

PROFESSIONAL MEMBERSHIP

American College of Cardiology (Student Member, 2019-)

American Heart Association (Student Member, 2017-)

American Medical Informatics Association (Student Member, 2017-)

PODCAST APPEARANCES

Role in implementing i2b2 software, how i2b2 facilitates research goals, and challenges within clinical trials, The Research Rundown Podcast Series, Episode 3, Cerner Corporation, July 2018

SERVICE LEADERSHIP

UMKC School of Graduate Studies Strategic Planning Committee, *Student Representative*
Appointed January 2019

UMKC School of Graduate Studies Assistantship and Tuition Task Force, *Student Representative*
Appointed January 2019

UMKC Graduate Student Council, *President (2019), Vice President (2018), Secretary (2016, 2017)*
Began Serving January 2016

Golden Key International Honor Society, *Treasurer (2016)*
Inducted January 2016

Omicron Delta Kappa Honor Society
Inducted January 2016

Phi Gamma Delta-Zeta Phi, Board of Graduate Advisors
Appointed May 2014

UMKC Biomedical & Health Informatics Chair Search Committee, *Student Representative*
Appointed August 2016-October 2017

UMKC Biomedical & Health Informatics Curriculum Steering Committee, *Student Representative*
Appointed May 2016-May 2017

William Jewell College Student Senate, *President (2013), Treasurer (2014, 2012)*
Elected 2012-2014

Phi Gamma Delta-Zeta Phi, *Treasurer (2013), Judicial Chair (2012), Member Education (2014)*
2012-2014

William Jewell College Cardinal Hosts
Appointed 2011-2014

Missouri Boys State Staff Counselor
Summer 2010

PROGRAMMING

Advanced: R, SAS
Intermediate: SQL, MongoDB, Python
Basic: PHP, HTML, CSS

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