# Jeremy B Provance, MS *Curriculum Vitae*

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CONTACT

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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**
Discipline: Biomedical & Health Informatics (University of Missouri-Kansas City School of Medicine)
Dissertation Chair: Kim G Smolderen, PhD
Dissertation Committee: Brian Anderson, PhD; Matthew Bunte, MD; Mark Hoffman, PhD; John Spertus, MD; Todd Vogel, MD
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)
Thesis Chair: Kim G Smolderen, PhD
Thesis Committee: Julie Banderas, PharmD; Mark Hoffman, PhD; John Spertus, MD
Thesis: Decisional Conflict in Peripheral Artery Disease: Association with Treatment Choice and Health Status

*August 2010-May 2014*
**Bachelor of Arts**
Major: Biology (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

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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.

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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.

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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

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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

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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

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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

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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)

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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

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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-)

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PROFESSIONAL MEMBERSHIP

American College of Cardiology (Student Member, 2019-)

American Heart Association (Student Member, 2017-)

American Medical Informatics Association (Student Member, 2017-)

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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

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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)*

**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)*

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

**William Jewell College Cardinal Hosts**
Appointed 2011-2014

**Missouri Boys State Staff Counselor**
Summer 2010

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PROGRAMMING

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

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