

# Heath L. Yates

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## Professional Experience

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### Sunflower Health Plan

Lenexa, KS

CLINICAL INFORMATICS ANALYST, DATA ANALYTICS TEAM

Aug. 2018 - PRESENT

- Perform clinical review of health outcomes and interventions for health plan
- Perform and conduct statistical analysis and reports in R and SAS
- Design, plan, code, and implement software applications to be compliant with state reporting requirements
- Projects involve technologies such as .NET Core, SQL, R, RMarkdown, C#, and Teradata

### Department of Computer Science

Manhattan, Kansas

ADJUNCT ASSISTANT PROFESSOR, KANSAS STATE UNIVERSITY

May. 2018 - PRESENT

- Responsible for seeking cutting-edge research and publication opportunities
- Current research projects focus on applied clinical, biometric, machine learning, and affective computing applications

### Biosecurity Research Institute (BRI)

Manhattan, KS

SOFTWARE ENGINEER, KANSAS STATE UNIVERSITY

Aug. 2014 - Jul. 2018

- Designed, coded, planned, and maintained software for a biosecurity level 3 research institute at Kansas State University
- Projects and responsibilities included work on inventory, telemetry web enabled api that worked with biometric devices, and various institute software applications
- Worked with a plethora of technologies such as .NET Core, EF Core, Typescript, Telerik, and SQL

### Knowledge Discovery in Database Laboratory

Manhattan, Kansas

RESEARCH ASSISTANT, KANSAS STATE UNIVERSITY

May. 2011 - May. 2018

- Researched the detection of core human affect in an urban environment
- Managed several projects in Knowledge Discovery in Database Laboratory during my doctoral and master research
- Focus was on statistical learning, general linear models, and supervised machine learning algorithms
- Worked with a plethora of algorithms such as logistic regression, svm, random forest, and basic neural nets

### Garmin

Olathe, KS

SOFTWARE ENGINEER INTERN, GARMIN CONNECTED SERVICES

May. 2013 - Aug. 2013

- I worked as an intern for the Garmin Connected Services group
- Improved Garmin's currency exchange services and worked on a traffic alert prototype

## Education

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### Ph.D. in Computer Science

Manhattan, KS

KANSAS STATE UNIVERSITY

Aug. 2011 - May. 2018

- Dissertation Title: Affective Intelligence in Built Environments

### M.S in Computer Science

Manhattan, KS

KANSAS STATE UNIVERSITY

- Master Report Title: Study and Comparison of Next Generation Sequence Algorithms and Tools

### M.S in Statistics

Manhattan, KS

KANSAS STATE UNIVERSITY

- Master Report Title: A Comparison of Type I Error and Power of the Alignment Rank Method Using Means and Medians for Alignment

### M.S. in Mathematics

Emporia, KS

EMPORIA STATE UNIVERSITY

- Master Thesis Title: Select Problems with Automated Variable Selection in Regression Analysis