

Joseph A. Faski

1067 Walker Ave NW 49504 • 616-634-5167 • josephfaski@gmail.com

Education

Michigan State University, East Lansing MI

Bachelor of Science in Neuroscience December 2016

Grand Valley State University, Allendale MI

Master of Science in Biostatistics May 2021

Research / Laboratory Experience

Research Internship, Devos Cardiovascular Laboratory

Van Andel Research Institute, Grand Rapids, MI 5/2016-1/2017

- Cultured, maintained, and preserved melanoma and carcinoma human cell lines
- Performed qPCR on cDNA transcribed from total RNA against cycling cardiomyocyte gene panel
- Maintained mouse colonies through PCR
- Cultured and extracted DNA from bacteria cultures (E. coli)
- Performed immunofluorescence on whole tissue mouse heart sections
- Wrote scripts in RStudio to aid in data organization, data visualization

Research Technician, Devos Cardiovascular Laboratory

Van Andel Research Institute, Grand Rapids, MI 1/2017 - 9/2020

- Cultured and maintained human induced pluripotent stem cell line (hiPSC)
 - Wildtype and mutant lines
- Collaborated with other labs to pursue grants and publications
- Worked with team on projects and gathered data for R01 grant submission
 - Differentiated hiPSCs into cardiomyocytes, then dedifferentiated through activation of the WNT pathway
 - Wrote and optimized protocol to isolate cells from sheep and human heart valve leaflets
- Isolated human PBMCs from whole blood and reprogrammed into hiPSCs using Sendai virus
- Prepared and stained proteins of various cell lines for fluorescence-activated cell sorting (FACS)
 - used up to 4 different fluorescent channels in hiPSC derived cardiomyocytes
- Experience with western blotting, PCR (quantitative and on the single cell level), immunofluorescence, DNA and RNA isolation and analysis, and bacteria culture
- Presented data at laboratory meetings

Biostatistics Internship, Devos Cardiovascular Laboratory

Van Andel Research Institute, Grand Rapids, MI 9/2020 – Present

- Wrote scripts in R using Shiny package to create web application for power estimation of RNA-sequencing experiments (bulk and single cell)
- Utilized R packages downloaded from Github for scRNA-seq power estimation

Skills

- Experienced in working with spreadsheets and writing scripts in SAS and R
 - Data wrangling and data analysis
- Experience with SQL
- Built machine learning models and neural networks in Matlab

- Familiar with Github for collaboration on projects
- Works well with a team and maintains a positive attitude
- Consistently meets deadlines
- Able to build websites in R using blogdown and hugo
- Fluent in customizing plots and tables for data visualization using R and SAS
- Able to interpret and explain inference on linear regression models, binomial models, Poisson regression models, etc.

Leadership Experience

Van Andel Research Institute, Grand Rapids, MI Summer 2017 - Summer 2019

- Mentored high school and college interns for summer projects
- Trained assistant research technicians on laboratory SOPs and duties