

# Eric C. M. Chantland

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Experienced (6+ years) human analytics researcher. Skilled in developing intricate software that records and analyzes data sets. Quick and independent learner of data analytics and software design to fit collaborators' needs. Proficient in working both as a project lead and an instrumental member of any team.

## Skills

Full-stack developer for cognitive experiments (using Python, JavaScript, Matlab, E-prime, and Qualtrics)    ▲    Quantitative and qualitative data analytics (using Python, R/Rstudio, SPSS, Matlab, and Excel)    ▲    Database management (MySQL, SQLite)    ▲    API (FastAPI)    ▲    Unit/system/user-acceptance testing    ▲    Research design development.

## Education

**M.A. in Cognitive Psychology** – Michigan State University (Spring 2022)

*Thesis:* Preference for Control is Consistent Across Probability and Size of Reward Outcomes.

*GPA:* 3.933

**B.S. in Psychology** – Michigan State University (December 2016)

*GPA:* 3.671

## Projects

**Dice\_Picture** [https://github.com/Chantland/Dice\\_Picture](https://github.com/Chantland/Dice_Picture) – Using python's scikit-learn, convert a picture into one composed of dice and then give information of the feasibility of creating it in real life. Allows for optional inputs including but not limited to cropping, dice dimensions, dice color(s), and pip relative size.

**FastAPI-Dice-APP** <https://github.com/Chantland/FastAPI-Dice-APP> – Integration of an API using the previous Dice\_Picture project. Submit one or more pictures and choose desired dimensions to output and save dice pictures. Uses a relation database (SQLite), API (FastAPI), Python, JavaScript, CSS, and HTML.

## Relevant Courses

Scientific Computing with Python Certificate	FreeCodeCamp
Data Analysis with Python Certificate	FreeCodeCamp
Introduction to HTML5 Certificate	Coursera
Introduction to CSS Certificate	Coursera
Interactivity with JavaScript Certificate	Coursera
PSY 815 Quantitative Research Design and Analysis in Psychology	GPA 3.5
PSY 992 (601) Programming for Behavioral Research	GPA 4.0
PSY 882 Statistics for Evaluators	GPA 4.0
CSE 801A Intro to Big Data Analysis	GPA 4.0
ITM 891 Special Topics in Informational Technology Management	GPA 4.0

# Experience

## **Graduate Research Assistant – Michigan State University**

August 2018 – Present                      Cognitive Control Neurolab, Principal Investigator: Susan Ravizza.

August 2018 – Present                      Neuroimaging of Perception and Attention Lab, Principal Investigator: Taosheng Liu

- Built and deployed research experiments via Python, JavaScript, Matlab, E-Prime, and Qualtrics which allowed for testing research questions on demographics both within and outside the greater Lansing area.
- Problem solved and debugged experiment-based software to manage user misconceptions and operating errors.
- Recorded then analyzed data to discover trends via Python (Numpy, Pandas, Scikit-learn), R/Rstudio, SPSS, Matlab, EEGLAB, and Excel.
- Managed large data sets, prepared data assessments, and presented summarized data analytics at collaborator meetings, thereby aiding in clarity and recommending changes to projects' design.
- Served as team leader for groups of up to 8 undergraduate research assistants in recruiting participants, facilitating experiments, and recording clean data.

## **Graduate Teaching Assistant – Michigan State University**

August 2018 – Present

- Tutored, lectured, graded, and created coursework for classes of 30 to 500 people.
- Guest lectured on complex methods of testing attentional templates by summarizing and effectively simplifying concepts for a predominately novice audience.

## **Research Manager – Michigan State University**

August 2017 – August 2018              Neuroimaging of Perception and Attention Lab, Principal Investigator: Taosheng Liu

January 2017 – August 2018              Attention and Perception Lab, Principal Investigator: Mark Becker

- Programmed 10+ experiment software via Matlab and E-Prime to match with principal investigators' current needs then coordinated researcher assistants to acquire data promptly.
- Assisted in the conception and development of 15+ experiments devised by the principal investigator and graduate students.
- Concurrently managed multiple research laboratories of up to 8-person teams of researchers. Trained researchers in experiment design where at least 2 researchers created their own studies under my and the principal investigator's guidance.
- Analyzed and assessed data via SPSS, Excel, and Matlab then distributed technical reports at meetings.

## **Undergraduate and Post-Bachelors Research Assistant – Michigan State University**

January 2017 – August 2017              Neuroimaging of Perception and Attention Lab, Principal Investigator: Taosheng Liu

August 2016 – January 2017              Attention and Perception Lab, Principal Investigator: Mark Becker

August 2016 – May 2017                  Twin Registry, Principal Investigator: Alexandra Burt

August 2015 – May 2016                  Morality Intergroup Relations Lab, Principal Investigator: Carlos Navarrete

- Aided in recording qualitative and quantitative data such as emotional responses, psychomotor data, behavioral accuracy, and reaction time.
- Independently conceived, programmed, and analyzed (SPSS and Excel) novel research on motivated target search detection including 3 total experiments of more than 120 subjects each.