

# 涂钰坤 GORDON TU

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## EDUCATION

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Chemistry Major, Bachelor of Science | Expected: Dec. 2020 | Calvin University

## SELECTED PROJECTS

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### TidyTuesday | Personal Project

- TidyTuesday is a weekly visualization challenge with hundreds of participants in R community, aiming to render insights through data visualizations.
- Clearly rendered the main insights from datasets. Such as:
  - The most profitable Broadway musical before winning the Tony Award
  - The driest state if Americans only consume state-produced beer
  - Most countries don't win as much as they lose in World BeachVolleyball tournaments
- Developed my own process of data visualization including rapid prototypin, sketching and discovering stories from datasets.

### Data Visualization and Storytelling on EasyShu WeChat Public Account | Personal Project

- Being invited to write a series of articles on data storytelling and visualization for EasyShu public WeChat account, which has more than 23000 followers.
- My articles will provide a guideline for data visualization practitioners to topics that include but are not limited to Storytelling Techniques in General, Importance of Audience, Color and Typography etc..

## AWARDS

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### Best Usage of External Data, DataFest of American Statistical Association | March 2019

- Won Best Usage of External Data among nearly data science 100 undergrads and master participants from Michigan area. The competition was looking for the best training strategy for Canadian Women Rugby team in 48 hours.
- Convinced our group to target the External Data prize after 40 hours data exploration and modeling. By comparing Rugby athletes' vertical acceleration during the game to normal people's jumping acceleration, we discovered that people with higher fluctuation of vertical acceleration than normal women tend to excel in the game.

## WORK EXPERIENCE

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### Research Assistant, Muyskens Lab, Calvin University | May 2018 – January 2020

- Improved a new calculation method to accurately measure the absorption spectrum of fluorescent solutions.
- With hundreds of repetition and correction, we rejected the hypothesized or calculated data about fluophor esculetin by measuring the experimental value of the fluophor's ESPT rate constant and its quantum yield dependent on pH levels.
- The draft paper is finished and going to be sent to publication. Details on publication progress can be consulted with Dr. Mark Muyskens (mm26@calvin.edu)

## SKILLS

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**Expertise:** R (ggplot2, data wrangling)  
**Proficient:** PPT, d3.js, storytelling  
**Comfortable:** SQL, Tableau, Adobe Illustrator

## LEADERSHIP

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### President of Chinese Student Association | September 2018 – May 2019

- Transform the club from an exclusive Chinese student association into an open-minded Chinese culture platform by collaborating with other language departments and recruiting new leaders who are competent and interested in Chinese culture.
- Recruit more than 20 volunteers to organize China-themed events that involved 200-400 participants twice per year
- Start social media accounts, such as Instagram, to live stream event preparations to promote student club

### Event Coordinator of Food Recovery Network | September 2017 – May 2019

- led weekly "food recovery" that recycles food from school dining halls and transport them to local non-profit charity organizations