**Ning Mei**

**New York University**

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**Website: https://github.com/adowaconan**

**Open Science Framework: https://osf.io/chav7/**

## EDUCATION

2016

- New York University, New York, NY

  M.A in Psychology (General)

2014

- Arizona State University, Tempe, AZ

  B.A. in Psychology (minor in Statistics)

2012

- Guangzhou University of Traditional Chinese Medicine, Guangzhou, China

  B.S. in Applied Psychology

## CONFERENCE POSTERS

Teng, X., Mei, N., Tian, X., & Poeppel, D. (2016). Auditory temporal windows revealed by locally reversing Mandarin speech. *Society for Neurobiology of Language,* Poster (co-first-author), Cognitive Neuroscience Society, 2016

Kim, T., Mei, N., Poeppel, D., & Flinker, A. (2015). A new acoustic space for hemispheric asymmetries. *Society for Neurobiology of Language,* Poster (co-first-author), Society for Neuroscience, 2015

## AWARDS

Arizona State University, Dean's list 2013, 2014

## Research and Internships

Fall 2014 – present

**David Poeppel lab**

- *MA research assistant*
- Running psychophysics experiments, MEG experiments, data analysis
- Ongoing project: Investigating hemispheric asymmetry in perceiving Mandarin Tones, in conditions of hums or lexical tones.

Spring 2015 – Fall 2016

**Catherine Good lab**

- *MA research assistant*
- Experimental subject testing, data collection, data analysis
- Data analysis on how sense of belonging in math moderating self-estimation in different confidence levels

Spring 2016 – present

**Timothy Ellmore lab**

- *MA research assistant*
- Develop python/Matlab Input/Output interacting scripts/protocol for EEG data processing
- Selecting features to detect target brain wave patterns (i.e. spindles, k-complex, sleeping stages) in the signal
- Automatic pipeline of non-supervised models to detect spindles (https://osf.io/fc3u5/)

Fall 2016 – present

**Data Science RoAD-Trip**

- The RoAD-Trip Joint Data Science Plan (Mentor: Gaurav Pandey)
- Implementing machine learning algorithms to detect target brain wave patterns (i.e. spindles, k-complex)

- Implementing machine learning algorithm to classify sleeping stages within subjects

Spring 2014

**American Cancer Society Cancer Prevention Study – 3**

- *Volunteer, Research assistant*

- Recruiting subjects, social media research

Fall 2012-Summer 2014

**ASU Changemaker center, Tempe, AZ**

- *Volunteer*

- Creating communities of support around new solutions/ideas

Fall 2009, Spring 2010

**Canton Life Hot Line, Guangzhou, China**

- *Intern*

- Consulting, recording consulting results

Fall 2010, Spring 2011

**Research team, prisoner emotional health, Guangzhou, China**

- *Intern*

- Collecting data about prisoners' mental health

## Working experience

Fall 2012 to present

**Varsity Tutor**

- *Tutor*

- Multivariate Calculus, Linear Algebra, Trigonometry (high school and college levels), Statistics (i.e. research methods, analysis methods, simulation, signal detection theory), Mandarin, Programming data analysis

March 2013 to present

**Translator**, MCC Translation, Phoenix, AZ

## SKILLS and CERTIFICATIONS

**Computer Skills:**

Excellent – Microsoft Office

- Word, Excel, Presentation, Poster Design

Excellent – Matlab

- Parametric tests, Nonparametric tests, Factorial analysis, Principle Component Analysis, Psychophysics Toolbox, Signal Processing Toolbox, Data Visualization, Scripts of Functions.

Excellent – Python

- Parametric tests, Nonparametric tests, Factorial analysis, Principle Component Analysis, Bayesian Model building, Model Evaluation, Data Visualization, Lambda Functions, Extensions of Python such as MNE-python (specialize in EEG, MEG data analysis), Pandas, tensorflow, and PyMC
- Import and export excel, matlab, SPSS, and SAS files. Extract, transform, and load databases.

Excellent – SPSS

- Parametric tests, Nonparametric tests, Factorial Analysis, Principle Component Analysis, Independent Component Analysis

Excellent – R

- Parametric tests, Nonparametric tests, Factorial Analysis, Principle Component Analysis, probabilistic computation
- Shiny – interactive graphs

Good – Letax Editor

- Equations and special effects in presentation slides, posters

Beginner – Julia

- Julia ikernel interacting with Jupyter projects

**Skills:**

- Courses taken: Calculus/Analytic Geometry I – III, Probability, Mathematical statistics, Simulation and Data Analysis, Mathematical Tools for Psychology and Neuroscience

**Statistics Skills:**

- Parametric statistics, Non-parametric statistics, Factorial Analysis, Principle Component Analysis, Independent Component Analysis, Least square regression, Multivariate regression, Step-wise hierarchical regression, Logistic regression, Bayesian Inference, Machine Learning (python sci-kit learn).

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## Current Project

- Investigating hemispherical difference in processing acoustic cues and lexical cues of Mandarin Tones using dichotic listening paradigm (https://github.com/adowaconan/Dichotic-Listening/blob/master/show_data.pdf)
- Implementing machine learning techniques in detecting spindles from EEG nap data (https://osf.io/fc3u5/)

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**Reference:**

Dr. Adeen Flinker, adeen.f@gmail.com, project 1 direct supervisor

Dr. Xing Tian, xing.tian@nyu.edu, project 1 collaborator, supervisor, and thesis grader

Dr. David Poeppel, dp101@nyu.edu, principle investigator of Poepple lab

Dr. Timothy Ellmore, tellmore@ccny.cuny.edu, principle investigator of Ellmore lab, and project 2 supervisor

Dr. Michael Grossberg, michaeldg@gmail.com, project 2 supervisor

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