

**Ning Mei**

**New York University**

**nm2241@nyu.edu · (646) 209-0264**

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

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## **EDUCATION**

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Expected Sept.,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

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## **POSTERS**

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Teng, X., Mei, N., Tian, X., & Poeppel, D. (2015). Auditory temporal windows revealed by locally reversing Mandarin speech. *Society for Neurobiology of Language*, Poster (co-first-author)

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)

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## **AWARDS**

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## **Research and Internships**

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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 – present

### **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
- Develop machine learning models to detect target features in the signal (implementation of continuous window in spindle detection)
- Develop auto detecting algorithms for target features
- Develop machine learning models to distinguish sleeping stages

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
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## **Working experience**

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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**

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## **SKILLS and CERTIFICATIONS**

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### **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, Basic ideas about Machine Learning.
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## Current Project

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- Investigating asymmetric perception of Mandarin Tones using dichotic listening
  - Implementing machine learning techniques in detecting spindles from EEG nap data
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## Reference:

Dr. Adeen Flinker, [adeen.f@gmail.com](mailto:adeen.f@gmail.com), project 1 direct supervisor

Dr. Xing Tian, [xing.tian@nyu.edu](mailto:xing.tian@nyu.edu), project 1 collaborator, supervisor, and thesis grader

Dr. David Poeppel, [dp101@nyu.edu](mailto:dp101@nyu.edu), principle investigator of Poeppel lab

Dr. Timothy Ellmore, [tellmore@ccny.cuny.edu](mailto:tellmore@ccny.cuny.edu), principle investigator of Ellmore lab, and project 2 supervisor

Dr. Catherine Good, [cgood@tfusa.org](mailto:cgood@tfusa.org), principle investigator of Good's lab and associate research of Turn-around Inc.

Uyn@i864