



## Chi Chen

26.06.1990  
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 chi.chen0626@gmail.com  
 married with 2 children  
 Chinese

## About Me

Experienced Ph.D. in cognitive neuroscience with excellent analytical skills and strong quantitative background. Hands-on experience in dealing with large datasets, performing data cleaning, visualization, and statistical modeling. Passionate about turning data into impactful insights.

## Skills

### Programming

Python   Matlab   SQL   Bash

### Hard skills

Data processing   Data visualization  
 Machine learning   Deep learning  
 Statistical analysis

### Soft skills

Critical thinking   Storytelling  
 Problem solving   Curiosity  
 Detail orientation

## Languages

English   ● ● ● ● ●  
 German   ● ● ● ● ●  
 Chinese   ● ● ● ● ●

## Social Network

LinkedIn  
 Personal Website  
 Github Project Page

## Working Experience

Dec 2020 – Present   **Researcher**   Charité – Universitätsmedizin Berlin

- Uncovered the auditory perceptual hierarchy in the brain
- Analyzed neuronal recording data (time series) by using unsupervised clustering algorithm in MATLAB/Python
- Collaborated with computational scientists in modeling animal behavioral data with neural networks

Jul 2019 – Nov 2020   **Maternity leave**

- Support my family.
- Further education via self-study on data science

Oct 2013 – Jan 2019   **Doctoral Researcher**   Max Planck Institute of Experimental Medicine

- Characterized auditory associative learning and its neural correlates in the auditory midbrain
- Collected and analyzed data, generated visualization
- Conducted statistical analysis to deliver insights
- Developed tools for automating animal behavioral training and data collection
- Planned and managed work across multiple research projects
- Published peer-reviewed journal articles

## Education

### Study

2014 – 2019   **Ph.D. in Neuroscience**   Georg-August-Universität Göttingen

2012 – 2014   **M.Sc. in Neuroscience**   Georg-August-Universität Göttingen

2008 – 2012   **Bachelor in Biological Science**   Tsinghua University, China  
 Related courses: Probability and statistics, Fundamentals of Computer Programming, calculus, linear algebra

### Professional training

May 2021 – Jul 2021   **Data analyst nanodegree**   Udacity  
 Focus: Data Extraction and Wrangling, Exploratory Data Analysis, Data Visualization

May 2020 – Nov 2020   **Introduction to machine learning with TensorFlow nanodegree**   Udacity  
 Focus: Supervised learning, unsupervised learning, deep learning

## Publications

2022   **jULIEs: nanostructured polytrodes for low traumatic extracellular recordings and stimulation in the mammalian brain**  
*Journal of Neural Engineering*  
 Romeo R. Racz, Mihaly Kollo, Gabriella Racz1, Ciprian Bulz, Tobias Ackels, Tom Warner, William Wray, Nikolai Kiskin, Chi Chen, Zhiwen Ye, Livia de Hoz, Ede Rancz and Andreas T. Schaefer

2021   **Natural sound characteristics explain perceptual categorization**  
*BioRxiv*  
 Chi Chen, Freddy Trinh, Nicol Harper, Livia de Hoz

2019   **Wide sensory filters underlie performance in memory-based discrimination and generalization**  
*PlosOne*  
 Chi Chen, Dilja Krueger-Burg, Livia de Hoz