CURRICULUM VITAE

MENGYI CHEN

UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, BEIJING, 100049, CHINA

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EDUCATION

Columbia University
January 18th – Present

Undergrad Engineering Visiting *New York, USA*

University of Chinese Academy of Science

Bachelor of Mathematics and Applied Mathematics | GPA 3.87/4.0   September 2019 -

Key Courses : Algebra , Real Analysis , Probability Theory , Differential   Expected June 2023

Equations , Differential Geometry   *Beijing, China*

Award: 2nd Scholarship of University of Chinese Academy of Science

(Awarded to the top 5% - 15%)

RESEARCH EXPERIENCE

Department of Statistics, Columbia University
February 2022 –

- Bayesian Computation (Research Team: Prof. Andrew Gelman)   Present

New York, USA

Academy of Mathematics and Systems Science, Chinese Academy of Sciences
September 2021 –

Seminar on Geometry (Research Team: Prof. Haibao Duan)   December 2021

- Discussed the assigned materials on differential topology written by Milnor   *Beijing, China*

- Lectured on differential topology every three weeks

- Final essay: [The Brower degree in topology, geometry and analysis](#)

LSEC, ICMSEC, Academy of Mathematics and Systems Science
August 2021 –

Linearized Time Fractional KdV Equation (Research Team: Prof. Yifa Tang)   September 2021

- Research the local error estimate of the L1 scheme for a linearized time fractional KdV   *Beijing, China*
  equation with weakly singular solutions

- Chen, H., **Chen, M.**, Sun, T., &Tang, Y.(2021). Local error estimate of L1 scheme for
  linearized time fractional KdV equation with weakly singular solutions. Applied
  Numerical Mathematics(volume 179,pp 183-190), Sep 2022

Department of Foreign Languages, Chinese Academy of Sciences
September 2020 –

Hair Loss in STEM Subjects   January 2021

- Research the correlation between hair loss and STEM subjects   *Beijing, China*

- Analyzed 127 top prize winners' hair loss degree from STEM and humanities

- Produced a final report on hair loss in STEM subjects : [Are STEM Subjects More
  Likely to Suffer From Hair Loss](#)

Math & programming courses

- Linear Algebra I-A
- Linear Algebra II-A
- Calculus I-A
- Calculus II-A
- Calculus III-A
- Algebra
- Basic Topology
- Real Analysis
- Complex Analysis
- Probability Theory
- Differential Equations
- Differential Geometry
- Number Theory
- Fundamentals of Programming and Experiments in C
- APMA 4150E   APPLIED FUNCTIONAL ANALYS
- APMA 4300D COMPUT MATH:INTRO-NUMERCL
- STAT 4222 GU NONPARAMETRIC STATISTICS
- STAT 4241 GU STATISTICAL MACHINE LEARNING

PROFESSIONAL SKILLS & INTERESTS

- Language Skills:

  Chinese : Native

  English : Fluent

  > IELTS 7.5(Listening: 7.5 ,Reading: 9.0 ,Writing:6.5, Speaking:6.0)
  >
  > College English Test Band 4 : 633/710
  >
  > College English Test Band 6 : 594/710
- Experienced in C , Python , R
- Interests : weight training ,Zumba ,Jazz ,Yoga ,Paper Cutting