

Thomas J. Davis

thomas.davis@mavs.uta.edu

+86 177-0167-6223

WeChat ID: thomastjdavis

Github: github.com/thomastjdavis

EDUCATION:

Bridge Education Group

TEFL/TEFL Certificate (80 hours)

Online

July 2020

TEFL in China

TEFL Certificate (120 hours)

Shanghai, China

May 2020

University of Texas at Arlington

Masters of Science in Mathematics (in progress)

Research Advisor: David Jorgensen

Research Focus: Category Theory and Homological Algebra

Arlington, TX

May 2021

University of Texas at Arlington

Bachelor of Science in Mathematics, Minor in Physics

GPA: 3.696

Arlington, TX

May 2018

CORE SKILLS:

Research, Teaching, Tutoring/Personal Communication, Editing, English Grammar, Microsoft Office Suite (Intermediate), Documentation, Customer Service, LaTeX, Java (Intermediate), Julia (programming, Intermediate)

EXPERIENCE AND JOB HISTORY:

HS Mathematics and Physics Teacher, K12 Director March 2020 - Current

Transformation Academy Shanghai

- Developed curriculum for AP Computer Science A, Pre-calculus, AP Physics 1/C, AP Calculus AB for use in own classroom
- K12 Director:
 - Ordered the K12 courses for students, checked the progress of each student
- Faculty advisor for Math Competitions, Science Club

Private Tutor

May 2015 – Current

- Taught and assisted students in schoolwork
- Introducing new mathematical concepts to prepare students for upcoming school lessons
- Standardized test preparations
- Documented every students progress and reported progress to their parents

Luth Research
Research Ethnographer

April 2019 – December 2019

- Collected data and feedback from customers/research subjects
- Assisted clients' customers who needed assistance
- Summarizing and presenting feedback to supervisor

I.D.E.A.S. Center of UT Arlington
Lead Peer Educator

June 2017 – May 2018; January 2019- May 2019

- Tutored and mentored UT Arlington students in academic and professional topics
 - Physics
 - Math
 - Computer Programming
 - Writing/Editing
- Instructed fellow Peer Educators in how to tutor and communicate effectively
- Helped develop students' skills in various academic subjects in 150+ tutoring and mentoring sessions

Commutative Algebra Research
Under Dr. David Jorgenson of UT Arlington

February 2017 – May 2018

- Created research reports solving technical problems
- Quickly learned LaTeX to typeset Mathematical documents
- Developed plan of action to execute research

Nano-Bio Physics Research
Under Dr. Wei Chen of UT Arlington

May 2016 – January 2017

- Presented own non-toxic hair dye research to colleagues
- Prepared cost proposals for projects
- [Published in Elsevier](#) (accepted for publication in 2018)

Rush Creek Children's Center
Children's Worker

August 2012 – October 2018

- Gave weekly lessons on Sunday to children in 3rd -6th grade (2012 – 2015), to children in various grades from kindergarten to 6th grade (January 2016 – October 2018)
 - Taught:
 - Motor skills
 - Communication between peers
- Assisted other children's workers with discipline/ childcare issues

Society of Physics Students

May 2016 – May 2018

UT Arlington

Instructor/ Event Coordinator/ President of Organization

- Performed science experiments to children (5 – 10 year olds)
- Reviewed old Physics exams with students, teaching the material

Programming: github.com/thomastjdavis

Julia – General purpose language, high performance computing, developed small programs independently

HTML – Language used for formatting websites, wrote own website (github.io/thomastjdavis)

Java – General purpose language, taught HS students in AP Computer Science A

LaTeX – Similar to markdown, renders documents commonly for Mathematical and Scientific texts. Used by most researchers in Physics, Chemistry, and Mathematical fields.