

# Carl Allen Horwitz

## TEACHING PHILOSOPHY:

I hope to help students make sense of the world of math in a non-threatening manner. I strive to blend innovative and traditional teaching methods in order to challenge and inspire each student. I aspire for students to leave my class with a solid understanding of computational skills as well as the ability to apply mathematical thinking to abstract problems. I am a firm believer that every student can excel in math; they just need a teacher who can help them relate to the material.

## EXPERIENCE:

### **Kent Denver School**

*Math Teacher*

**Cherry Hills Village, CO**

August 2016- July 2020

- Taught, Algebra II Honors, Pre-Calculus, Pre-Calculus Honors and AP AB Calculus to high school students.
- Community Service Coordinator
- Advisor to a group of 10 students over their time from a Freshman to graduation.

### **Jewish Community High School of the Bay**

*High School Math Teacher*

**San Francisco, CA**

August 2014- June 2016

- Teach Geometry Advanced, Algebra 2, Pre-Calculus and Calculus to high school students.
- Help organize, facilitate and lead the sophomore class trip to Zion National Park.
- Work with the math department to help define the scope and sequence of the math curriculum.
- Lead the math club.
- Serve as an advisor for up to seven students. Monitor their scholastic and social development and serve as the primary point of contact between those students, their parents, and the school.
- Facilitated the examination and rewriting of the placement tests.

### **Carl's Math Tutoring**

*Founder and Tutor*

**San Francisco, CA**

August 2009- June 2015

- Work one-on-one with middle school, high school, and college students and adults to help improve their understanding in various math classes.
- Specialize in high school math, Pre-Algebra through Calculus, as well as ACT & SAT test prep.

### **The Bay School**

*Math Teacher/ Part-time Math Teacher/ Substitute*

**San Francisco, CA**

September 2009- June 2014

- Taught Math2 (Algebra 1), Math3 (Algebra 2) and Analysis of Functions (Pre-Calculus) to high school students.
- Served as a multi-discipline substitute.

### **University of San Francisco**

*Adjunct Faculty, Foreword Program*

**San Francisco, CA**

August 2011/ 2012

- Created the curriculum and taught Introduction to College Algebra to a group of incoming freshmen.
- Helped prepare a group of students for the life and rigors of collegiate life.

### **The Branson School**

*Math Teacher*

**Ross, CA**

August 2005- August 2009

- Taught Geometry, Algebra II, Pre-Calculus and AP Calculus to high school students.
- Organized and instructed the Climbing Club and Outdoor Club.
- Coordinator of the Math Club.
- Meet with a group of nine students every week to help mentor their scholastic and social development.

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### **Brightstorm.com**

*Math Teacher*

- Concept development for an online, mathematical resource.
- Created and delivered the content for an Algebra II video- tutorial course.
- Collaborated with other educators to create a full high school mathematical curriculum.

**San Francisco, CA**

June 2009- August 2009

### **Challenge Learning Center**

*Ropes Course Facilitator*

- Facilitated programs for high school and middle school students, which focused on decision making, risk taking, teamwork, communication, and trust.

**Mountain View, CA**

August 2003- March 2005

### **Good Hope School**

*Upper School Mathematics Teacher*

- Taught Honors Geometry, Algebra II/Trigonometry, Honors Pre-Calculus and Advanced Placement Calculus to high school students.
- Was the assistant coach for elementary and varsity soccer.
- Was responsible for the wellbeing of the students in numerous extracurricular activities, including but not limited to: drama stage crew, senior class trip, school dances and field trips.

**Frederiksted, VI**

August 2002- June 2003

### **Visions International**

*Dominica*

*Australia*

*Tortola, British Virgin Isle*

- Supervised a nonprofit, community service program for high school aged youth.
- Guided and instructed twenty-five teenagers in construction and agricultural-based community service, outdoor exploration and adventure, communication and intercultural living.

**Newport, PA**

June 2005- July 2005

June 2001- August 2001

June 2000- August 2000

## **EDUCATION:**

### **Portland State University**

Master's in Education: Curriculum and Instruction

**Portland, OR**

May, 2020

### **California Teachers Credential**

**January 2016**

### **University of Michigan**

Bachelor of Science in Mathematics

Electives concentrated in Sociology, Anthropology, Religion, Geology and Music.

Cumulative GPA: 3.47/4.00

**Ann Arbor, MI**

April 2001

## **SKILLS:**

- Comprehensive understanding of all topics in the high school mathematics curriculum.
- Ability to explain topics in a clear and concise manner that is easy to follow.
- Laid back with a good sense of humor, which reduces the stress level of students and/or clients.
- Ability to visualize and analyze complex interactions, whether abstract or concrete, and thereby to help solve problems
- Highly organized and detail oriented.
- Motivated individual with excellent oral and written communication skills
- Proficient in Microsoft Office, Google Drive, TI-calculators, Geometer's Sketchpad, basic html and website management, WebAssign, Schoology, FileMaker and web navigation
- Functional intermediate Spanish with more comprehensive than expressive skills.
- Extensive outdoor adventure skills, included but not limited to; climbing, hiking/backpacking, camping, road and mountain biking.
- Former WFA and WFR certifications.
- Cross-cultural communication, based on experience across the United States, Asia, Europe and the Caribbean, including extensive experience in no less than a dozen countries.