

Shailesh R Kadakia, MSE

Escondido, CA 92027 ♦ (760) 421-3958 ♦ Kryptonsky@gmail.com ♦ LinkedIn URL

EXPERT MATH & SCIENCE TUTOR, HR MANAGER

Algebra | Calculus | Trigonometry | Physics | Chemistry | Astronomy | Computers

Retired IT Career Engineer & Professor at University of Pittsburgh, PA offering more than 10 years of Classroom teaching and private tutoring experience. Innovative in tailoring instructions to meet demands of advanced placement and general population of students as well as those with learning differences. Passion for advancing academic programs and helping students develop critical thinking skills. At present serving as Expert tutor with Mathnasium Learning Center and WYZANT Private tutoring services. Accumulated 500 hours one on one tutoring and 8000 hours of group teaching credential.

Teaching Skills/Subjects

Mathematics: Algebra I & II, Geometry, Calculus AB, Differential Equations, Trigonometry, and SAT

Sciences: Physics I & II, Chemistry, Electric Circuits, Astronomy, and Cosmology

Computers: VLSI Logic and Circuit Design, Computer Architecture/Hardware Design Expert

Software: Expert in low level Assembly language programming, and Verilog/VHDL, C, and C++.

Platforms: In Person, and On-line, Wyzant white board, Zoom, and Skype

Author:

- Text Book: **Unique Physics of Light and Astronomy**, Published August, 2016 in CA
- Reference Books: **True Physics of Light, Beyond Relativity**, 1st and 2nd Edition, Published 2010 & 2011

Tutoring Experience (2013 to Present), Web: www.skylativity.com

Mathnasium, Rancho Penasquitos, San Diego CA— Senior Math Instructor 01/2019- Present

- Coaching 120 students from Middle thru High School in Algebra & Geometry, the Mathnasium Way.
- **One on one tutoring:** Trigonometry, Algebra, Pre-Calculus, Calculus and SAT test takers.

Mathnasium, Oceanside North, Oceanside CA— Math Instructor 06/2018- 01/2019

- Coaching 50 students from Middle thru High School in Algebra & Geometry, the Mathnasium Way.
- **One on one tutoring:** Trigonometry, Algebra, Pre-Calculus, Calculus and SAT test takers.

Mathnasium, South Escondido, Escondido CA— Math Instructor 06/2016-01/2019

- Coached 50 students from Middle thru High School in Algebra & Geometry, the Mathnasium Way.
- Tutored **Julia F, Mikayla K, Robin N, Randy Mendiola, and Myika G** in Algebra, Calculus, and Physics.

Mathnasium, San Marcos & Carlsbad, CA— Math Instructor 09/2013-05/2016

- Coached 100 students from Middle thru High School in Algebra & Trigonometry, the Mathnasium Way.
- Administered tutoring session on LTE PHY Downlink Model in Simulink to **Jim Oates** from Qualcomm.

Wyzant, Chicago, IL SELF-EMPLOYED ♦ Private Tutor ♦ High School/College 08/2018-Present

Hired by students and families to provide in-home and on-line academic tutoring, instructional support, homework assistance, and SAT prep after school on weekends, weekdays/late evenings and in summer.

- Customized tutoring and instructional approaches to meet the needs of diverse client populations. Promoted learning Mastery and Academic success for dozens of students, boosting GPAs and Test Scores to new bests.
- Tutored in all academic subject areas and guided students in test taking strategies, notetaking, prioritizing assignments, and studying for exams.
- Elevated student's confidence and performance in all subjects by atleast one letter grade and improved SAT scores by upto 25%

Patents Issued: Visit <https://www.skylativity.com/> scroll to bottom of the page.

WYZANT Tutor: https://www.wyzant.com/Tutors/Sky_Expert_Math_Tutor

Student Reviews/Recommendations

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Knowledgeable and patient: Calculus

Shailesh is a good instructor who is very attentive. Shailesh helps you understand the concept of the subject you are working on. I am grateful to have a tutor with his knowledge and experience.

Mark, 10 lessons with Shailesh

Sky was the Perfect Fit!: Physics

Transitioning to remote learning during Covid was difficult for me. Sky was very accommodating to my scheduling needs and even drove to my home. He is very knowledgeable even for my college level calculus-based physics course. He taught me how to conceptualize the problems and then apply the concepts to real world problems. I highly recommend Sky!

Cooper, 17 lessons with Shailesh

5 Stars!! Best tutor ever!!: Business Calculus

Sky has helped me tremendously. He is always happy and ready to help. I am in business calculus. I started with Sky about two weeks into the semester. He has helped me pull my grade up to a solid A. Sky is very kind and knows many different teaching styles. Sky is by far the best tutor I have ever had. I highly recommend him.

Hannah, 13 lessons with Shailesh

Knowledgeable, Helpful Tutor: Physics

Shailesh helped me with physics. I am in a very challenging college level physics course and Shailesh is able to help with any question. Whatever you don't finish in the session, he will finish the rest of the problems and send you answers with a guide on how to solve each problem, very helpful and clear.

Rafael, 6 lessons with Shailesh

Full of knowledge: Computer Engineering

Shailesh has a plethora of knowledge on many subjects. He has a significant amount of experience in the field as a teacher and as an engineer. He makes sure that during the session that as a student you are doing the critical thinking. On session or off session, Shailesh will help ensure that you have all the resources needed to learn.

Dante, 2 lessons with Shailesh

Great tutor, helpful, caring!: Astronomy

Very helpful tutor. He was able to work through a long list of problems very quickly and explain them well. He even worked on a question we struggled on after the session and sent me how to do it via email. Very thoughtful and caring to go the extra mile. Best astronomy tutor on Wyzant!

Nicolas, 2 lessons with Shailesh

Great tutor!: Electrical Engineering

He is very patient, knowledgeable, and professional. He gave me he understood what I was looking for, and he gave lots of materials, resources, and PP slides, and he walked me through them. I would recommend him!

Helal, 2 lessons with Shailesh

Teaching in College (2011 to 2012)

University of Pittsburgh, Johnstown, PA—Visiting Professor

08/2011-08/2012

- Taught classes Digital Electronics, Circuits Theory and Programming in **MATLAB 7.12**.
- Administered labs for classes Electric Circuits, Digital Electronics, Embedded Systems & Control Methods
- Advisor for Senior Projects, Speed Check Box, Robotics Lawn Mower & Wellness Center Tracking System.

WYZANT Tutor: https://www.wyzant.com/Tutors/Sky_Expert_Math_Tutor