

Curriculum Vitae

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Research Interests:

- Past: Epistemology, Computer Science, Cognitive Science, Relativity
- Present: Fundamental Physics, Cosmology, Quantum Wave Mechanics (QWM), M-Theory
- Future: Geometric Algebra (Clifford Algebra), Consciousness

Education:

- **Western High School**: graduated early
- **Cypress College**: math/physics/chemistry classes
- **Orange Coast College**: APL programming, IBM 360 Operations
- **UCI**: Thomas Standish Data Structures class
- **CalTech**: Mechanical Universe Class (online)
- **MIT**: Dr. Walter Lewin Physics I & II (online)
- **Neil deGrasse Tyson**: Master Class on scientific method & effective communication
- **Anthony Robbins Mastery University**: graduate of Date with Destiny, UPW, Life Mastery, Wealth Mastery
- **Knowledge Broker Blueprint**: learned how to discover and develop personal “super-powers”
 - Who could have thought? -- **RESPECT** could be a superpower?
 - Add to this: the ability to envision 4D geometry and transform that vision into math and express that math in a graphics description language – creating detailed images and animations.
- **Self-Taught**: Fundamental Physics & Quantum Mechanics
- **Pioneering**: Quantum Wave Mechanics, 11-Dimensional M-theory

Orange County Astrophysics Special Interest Group: active member

PUBLICATIONS:

Conference Presentations:

- 2013: Natural Philosophy Alliance: “[Our Cosmos = Holographic 4D-Spherical Standing Wave](#)”

Articles:

- 2015: Fundamental Questions Institute essay contest, “[Is Physics = 4D Space~Time Geometry](#)”
- 2020: ResearchGate.net: “[Resolve Dark Energy & Propose CODATA 2018 Values](#)”
- 2024: TrueCosmology.info “[Resolve Dark Energy & Propose CODATA 2024 Values](#)”

HONORS / AWARDS:

- 1969: **1st Place in California Science Fair**: built a binary digital computer out of pinball machine parts.
- 1971: **Chemistry Student of the Year**: aced the tests & wrote program to balance chemical equations.

Unacknowledged yet Noteworthy Accomplishments:

- **1972: Physics Computer Development Project, UCI**: (while still a high-school student) rewrote COMPLEX a Computed Aided Instruction program which taught complex number theory. Also, added a “remember each student” feature to Quantum, a program which taught principals of quantum physics.
- **2011-2024: Created Physics Knowledgebase/Calculator**: accumulated over 300 physics equations.
 - * **Calculated Newton’s Gravitation Constant & All Planck units to 10-digits of precision.**
 - **G = $6.674292323 \times 10^{-11} \text{ m}^3/\text{kg s}^2$** . standard relative uncertainty 1×10^{-14}
 - **2022-08-03**: Discovered the EXACT equation for the Fine Structure Constant.
 - **2022-08-13**: Discovered how to calculate neutron mass to same precision as electron mass.
 - **2023-03-29**: Discovered equations that calculate the mass & GeV of the Higgs boson
 - **2024-01-05**: Discovered quantum wave numbers of electrons, protons & neutrons

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Interesting “Sound Bytes”

- **Avid Computer Enthusiast:** involved early in the computer revolution, built 200 computers

COMPUTER LANGUAGES:

- APL, J, SQL, POV-Ray, VHDL, C, C++, BASIC (many dialects), FORTRAN, PL/I, Pascal, Forth, some Python, MetaSymbol Sigma 7 macro assembler

MEMBERSHIPS / AFFILIATIONS

- IEEE in 2020
- **ResearchGate.net:** networking with other physicists, theoreticians
- **Natural Philosophy Alliance:** online and onsite conferences
- **MatheMagicians Think Tank:** Teams researching number theory, geometry, encryption/decryption, physics, cosmology, consciousness
 - Research Areas: Theory & Applications
 - **Number theory**
 - numeric representations: binary, decimal, hexadecimal, *other*
 - numeric domains: integers, fractions, real, complex, Versors, Quaternions
 - **Geometry**
 - 2D Plane geometry: coordinate systems, polygons (vertices, perimeters, areas)
 - 3D Space: polyhedron (vertices, faces, volumes)
 - 4D Space~Time: (vertices, 4D distance, curved surfaces, quantized manifestations)
 - **Quaternions:** concise & precise representation for translation, rotation & scaling in 4D.
 - Current Projects:
 - **Formalization of Quantum Wave Mechanics:**
 - Define and explain everything in terms of Quantum Wave Numbers & Quantum Harmonic Resonance
 - The Space~Time framework of physical reality
 - How physical hologram gain substance from the Higgs field
 - The Energy~Temperature layering of the span of time and its reciprocal
 - **Complex numbers in physics:** Applying Quaternions to model Space~Time and Quantum Gravity.
 - **Convergence of science and spirituality:** *exploring ideas that align with the Dali Lama's*
 - Universe = Holodeck within a Quantum Computer the size of the Cosmos
 - The Universe in an Atom: Holography at the electron scale
 - The Universe in a Proton: Holography at the proton/neutron scale
 - Holographic nature of reality: reflection(“All there is”) = imaginary/reciprocal
 - Cosmic Symmetries: the power of reciprocals and their ratios
 - Cosmic Consciousness: non-locality is everywhere.
Learn to understand everything in terms of its derivative with respect to time.