

## **Bio-CV: Prof. Roger H. Kadala – Senior Lecturer**

**DOB:** 12/14/1951, Caracas, Venezuela. Currently living in Honolulu, Hawaii. since 1987.  
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**Professor Kadala** holds **graduate** degrees in Physics (PhD-2011, MS-2001) from the University of Hawaii, Mathematics (MS-1974, ABD-PhD) & Engineering (ME-EE-1972) from New York University, Law(1983) from the Universidad Catolica Andres Bello Caracas and Applied Mathematics (ABDScD-1978) from the Universidad Central de Venezuela.

He has been teaching at the University level, both graduate and undergraduate, since 1972 in universities worldwide, (Hawaii Pacific University, 1987- Asst.Professor 1992-2014, Senior Lecturer 2014- ; University of Hawaii system, 1991-2017; Universidad Central de Venezuela, 1972, 1974-82; Universidad Metropolitana Caracas, 1974-76; Universidad Catolica Andres Bello, 1972). He teaches upper level courses in mathematics, physics & astronomy, computer science, engineering and international business.

A former jet pilot, with over 11,000 jet flight hours, in DC-10, DC-8, Lear, Gulfstream and Citation aircraft, including several years of flight status in Air Force One aircraft for various world leaders outside the US.

An active waterman, having successfully completed numerous Ironman Triathlons (1983-1992), and several individual Molokai Channel crossings (1994-97,2000), and competing in open ocean paddleboard races.

Management experience as continental area manager for flag carrier airline (VIASA), and executive director for import-export corporations worldwide.

Currently his interests are in Number Theory, Operator Theory & Quantum Mechanics, High Energy Physics (Supersymmetry) & Quantum Cosmology (Dark Energy & Dark Matter). Applications of Quantum Algorithms to Number Theoretic Problems. Research papers in Supersymmetry published in EPJC-(08/2008) and SUSY-2011.

Graduate/Professional credits completed:

University of Hawaii (Physics, Mathematics, Astronomy, Oceanography & Meteorology – 252 cr.),

New York University (Mathematics-72 cr., Engineering-36 cr.),

Universidad Central de Venezuela (Applied Mathematics-36 cr.),

Universidad Catolica Andres Bello(Law-72cr)

Taught over 1900 credits, undergraduate/graduate in Mathematics, Physics, Astronomy, Engineering and International Business.

Courses taught in the last seven years include:

Complex Analysis, Differential Equations, Linear Algebra, Discrete Mathematics & Group Theory, Probability & Statistics, Real Analysis, Vector Calculus, Integral/Differential Calculus, Pre-Calculus, Mathematics of Cryptography, Modern Physics, University Physics, College Physics, Survey of Astronomy, Evolution of the

Universe, Algorithms, Assembly Language, Electric Circuits, Engineering Dynamics, Business Statistics, Mathematics for Decision Making, College Algebra  
Curriculum Vitae listing of Academic and Professional experience:

Academic:

1. University of Hawaii: From spring-1991 to Fall-2011 includes graduate credits obtained in Physics, Astronomy, Mathematics, Oceanography and Meteorology, continuously, 6 credits/semester, with the following degrees awarded:  
PhD in Physics, in Supersymmetry (12/2011).  
MS in Physics (08/2001).
2. Universidad Catolica Andres Bello (UCAB), Caracas: Fall-1974 to Spring-1979, Law studies, degree awarded:  
Abogado (Attorney) in 1983. (\*) discrepancy in dates explained below in expanded addendum.
3. Universidad Central de Venezuela (UCV), Caracas: Fall-1974- Fall-1978, doctoral studies in Applied Mathematics(Theoretical Mechanics). Completed requirements for ScD but could not defend thesis as explained below (\*\*).
4. New York University:  
College of Arts and Sciences: from Fall-1971 to Summer-1974, graduate studies in Mathematics at the Courant Institute of Mathematical Sciences (CIMS), completed all requirements for PhD except for dissertation., with following degree awarded:  
M.S. In Mathematics (06/1974)  
School of Engineering and Science: from Fall-1967 to Spring-1971, studies in Electrical Engineering with following degrees awarded:  
M.E. in E.E. (02/1972)  
B.E. in E.E. (02/1971)
5. High School:  
Colegio Americano (1966-67), Colegio San Agustin (1965-66): completed 2 years of HS in Venezuelan system, which required an additional year, so I did not graduate.  
Miami Military Academy (1963-65): completed 9<sup>th</sup> and 10<sup>th</sup> grades, which is why I only did 2 more years in Venezuela before attending NYU.

Professional:

1. Hawaii Pacific University (1987- ): Assistant Professor of Mathematics until 2015, currently a Senior Lecturer., teaching all levels of undergraduate in Mathematics, and also Physics, Astronomy, Computer Science, Engineering. Also graduate courses in the MBA/CSIS programs.
2. University of Hawaii system: (1991-2017) Lecturer in Mathematics, Physics and Astronomy.
3. Martinair-Holland (1988-89): DC-10 flight crew, flying cargo/pax worldwide, based in Amsterdam.

4. VIASA Airlines (1978-87): DC-8, DC-10 flight crew, DC-8 Air Force One flight crew (1980-81) with tours to OPEC countries (Algiers, Lybia, UAE, Iraq, Qatar, Kuwait, Saudi Arabia) and to (Vienna, Paris, Nice, Strasbourg). Also, Area Manager for North USA and Canada.
5. Corporate Pilot (1976-84): flying as Captain, several jet aircraft. Over 11,000+ jet flight hours total between items 3-5.
6. UCV (1972;1974-1980): Profesor Agregado (between Asst. and Assoc.) teaching both graduate and undergraduate courses in Mathematics.

Expanded Addendum :I am fully responsible for my performance in everything contained above, but I believe some of these items merit further clarification.

1. Born in (12/1951), I attended NYU-Eng at age 15 (09/1967), and by age 18 had completed all coursework for BE in EE except for one class which I postponed to Fall-1971 to keep my NCAA eligibility for Swimming/Soccer, otherwise my degree would have been awarded in (10/1970), instead of (02/1971).  
The remaining coursework was at the graduate level, and by Spring-71 I had completed all requirements for the ME in EE, but NY State law required one year between degrees, so it was awarded in (02/1972).
2. Took GRE exam in Fall-1970, scoring 780/800 in Math and mid to high 500's in English.
3. With a good background in Applied Mathematics from an Engineering/Physics perspective I applied to the Courant Institute. I received my acceptance on 12/31/1970, from then director of the CIMS Prof. Peter Lax (Abel-laureate), who must have seen some potential in me. I struggled during the first 3 semesters with my lack of mathematical rigor. My first experience in Abstract Algebra (Jacobson) and Real Analysis (Royden) was at the graduate level. Yet, I passed the written examination on my first attempt with a grade of A which admitted me into the doctoral program.  
I completed all coursework and in June 1974 began my thesis research in Water Waves under the direction of Prof. JJ Stoker. An extreme family emergency had me returning to Venezuela in the Summer of 1974.
4. While working as a FT Professor, I enrolled in both the Law program at UCAB and the doctoral program at UCV.  
(\* I completed all the requirements for Law degree in 1979. I had used my engineering degree to enroll in the program. The Department of Education required a HS diploma from Venezuela, which I did not have and it took me until 1983 to get it sorted out.  
(\*\*) I was ready to present dissertation but could not until all requirements were satisfied. I was missing credit for 2 required courses, Methods of Applied Mathematics I and II. I kept submitting a petition to University Council for this, since at the time I was the only faculty teaching these courses, and I could not enroll as my own student, but by the time I left, it was still not approved (1984), so I was not able to complete the degree.

