

# **LESTER INGBER RESEARCH**

Prof. Lester Ingber

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## **Lester Ingber, Ph.D.**

**Full CV:** [https://www.ingber.com/ingber\\_CV.pdf](https://www.ingber.com/ingber_CV.pdf) (or [ingber\\_CV.txt](https://www.ingber.com/ingber_CV.txt))

**Summary of Projects:** [https://www.ingber.com/ingber\\_projects\\_brief.pdf](https://www.ingber.com/ingber_projects_brief.pdf)

**Publications:** <https://www.ingber.com/ingber.bib.html>

### **Professional Experience**

- Over 100 publications
- Lester Ingber Research (LIR), Interdisciplinary Research/Consulting 1989-
- Extreme Science and Engineering Discovery Environment, Principal Investigator 2013-
- Pion Capital, Partner 2011-2013
- Research Publisher, Editor-in-Chief 2012
- DUNN Capital Management, Stuart FL, Director R&D 2002-2003
- DRW Trading, Chicago IL, Director R&D 1997-2001
- George Washington University, Research Professor of Mathematics 1989-1990
- National Research Council, Senior Research Associate 1989
- US Army Concepts Analysis Agency, Guest Professor 1989
- Naval Postgraduate School, Professor of Physics 1986-1989
- National Research Council, Senior Research Associate 1985-1986
- Physical Studies Institute, President Nonprofit Corp. 1970-1986
- UC San Diego, Asst. Research Physicist 1970-1972
- State University New York at Stony Brook, Asst. Professor of Physics 1969-1970

### **Education**

- National Science Foundation Postdoc, UC Berkeley and UC Los Angeles 1967-1969
- University of California San Diego, Ph.D. 1967, Theoretical Nuclear Physics
- California Institute of Technology, B.S. 1962, Physics
- Brooklyn Technical High School, Diploma 1958

### **Published Expertise**

- Summary of Projects — [https://www.ingber.com/ingber\\_projects\\_brief.pdf](https://www.ingber.com/ingber_projects_brief.pdf)
- Recent Projects — [https://www.ingber.com/lir\\_computational\\_physics\\_group.html](https://www.ingber.com/lir_computational_physics_group.html)
- Statistical Mechanics of Financial Markets — Options, Bond Futures, Trading Systems, Risk
- Statistical Mechanics of Neocortical Interactions — Memory, EEG, Intelligent Systems
- Statistical Mechanics of Combat — Baselined Simulations to Exercise Data
- Stochastic Algorithms — Simulated Annealing Optimization and Path Integration
- Theoretical Nuclear Physics — Nucleon-Nucleon Scattering, Nuclear Matter, Neutron Stars
- Teaching Methodologies — Private School Developed High-School and College Curricula
- Physics of Karate — Teaching Methodology Leading to 8th-Dan Black Belt