

# Larry S. Liebovitch

<http://people.qc.cuny.edu/Faculty/Larry.Liebovitch/documents/main.html>

## **SUMMARY**

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Interdisciplinary career in research, teaching, and administration in the physical, biological, and social sciences.

## **SKILLS**

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Highly interdisciplinary in finding and leveraging connections between different scientific fields.  
Mathematics: statistics, ordinary and partial differential equations, numerical solutions.  
Python 3: machine learning, some AI. GitHub. MATLAB. HTML. MS Word, Excel, Powerpoint.

## **ACCOMPLISHMENTS**

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Experiments, data analysis, and mathematical modeling in physical and social sciences.  
Developed in-person and on-line courses in fractals, quantum computers, and machine learning.  
Management in universities over 10 years as a Center Director, Associate Dean, and Dean.  
Author of 5 books published by Oxford University Press, SAGE, and Springer.  
Author of over 100 scientific articles published in peer reviewed journals.

## **SAMPLE OF PUBLICATION TITLES**

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How to live in peace? Mapping the science of sustaining peace: a progress report (Am Psychologist)  
Audio analysis of people struggling to reach consensus on a topic on which they disagree (PLOS ONE)  
The dynamic consequences of cooperation and competition in small-world networks (PLOS ONE)  
Correlated walks down the Babylonian markets (commodity prices 463–72 BC) (Europhys Lett)  
Patterns of subnet usage in transcriptional gene regulatory networks (PLOS Comp Bio)  
Neural networks to compute molecular dynamics (J Bio Sys)  
Why the eye is round (Biology of the Eye)  
Smart physics for brilliant computer engineers, season 2 (YouTube)  
Two dimensional calculation of gas flow in barred spiral galaxies (PhD thesis)

## **WORK EXPERIENCE** (\*present)

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Queens College, City Univ. NY: Dean of Math & Natural Sciences, \*Professor of Physics & Psychology  
Columbia University: Earth Institute, \*Adjunct Senior Research Scholar  
U.S.Navy-ONR-ASEE Summer Faculty Research Program, Naval Research Laboratory  
Florida Atlantic University: Professor, Associate Dean, Director of the Center for Complex Systems  
College of Physicians & Surgeons of Columbia University: Dept. of Ophthalmology, Assistant Professor

## **EDUCATION**

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Postdoctoral Fellowships: Mt. Sinai School of Medicine, Columbia University  
AM, PhD: Astronomy: Harvard University  
BS Physics (summa cum laude): The City College, City University of New York