

# CURRICULUM VITAE (brief)

**Victor Y. Pan**

**Distinguished Professor**

**Department of Mathematics and Computer Science**

**Lehman College and the Graduate Center**

**City University of New York**

**Bronx, New York 10468**

**Tel. (718) 960-8568 (office)**

**Fax (718) 960-8969**

**E-Mail: [victor.pan@lehman.cuny.edu](mailto:victor.pan@lehman.cuny.edu)**

**Website: <http://comet.lehman.cuny.edu/vpan/>**

*SEE MORE INFORMATION ON MY WEBSITE IN MY COMPLETE CV (THE FILE "CV Public Talks Research" IN FOLDER "VITA") AND ITS SECTIONS DISPLAYED IN THE FILES "Research", "Selected Publications", "Publications by Subjects (complete list)" AND "Talks" IN FOLDER "Research"*

## 1 PERSONAL DATA AND EDUCATION

### 1.1 PERSONAL DATA

- Born in Moscow, USSR, on September 8, 1939 in the family of Yakov Solomonovich Pan, 1906-1941, the author of a bestseller of 1940 about scientific discoveries, republished in the 21st century in England and France – see Wikipedia article: Яков Соломонович Пан ("Yakov Solomonovich Pan", in Russian), and Rievka Kalmanovna Kogan, 1904-1965
- Immigrated to the U.S. in 1977
- U.S. Citizen since 1982
- Married to Lidia Perelman (Pan), literary critic – see Wikipedia article: Лиля Панин ("Lilya Pann", in Russian) by link from: Новая Карта Русской Литературы ("Novaya Karta Russkoy Literatury", in Russian)
- Hobbies: Reading and writing poetry, Mountaineering, Swimming, Skiing and Cross-Country Skiing
- Languages: English, Russian, French

### 1.2 HIGH SCHOOL EDUCATION

- 1946–1956: 59th High School in Moscow, USSR  
(prizes in Moscow School Olympiads in Math 1954, 1955 and 1956)

### 1.3 HIGHER EDUCATION:

1956–1964: Department of Mechanics and Mathematics  
Moscow State University (MGU)

- 1961: M.S. in Mathematics
- 1964: Ph.D. in Mathematics (Thesis Advisor: A. G. Vitushkin)

## 2 EMPLOYMENT AND CONSULTING:

### 2.1 EMPLOYMENT

- 1988 – Visiting Professor, Professor, and (since 2000) Distinguished Professor at the Department of Mathematics and Computer Science of Lehman College of the City University of New York (CUNY) and in the Ph.D. Programs in Computer Science and in Mathematics of the Graduate Center of CUNY
- 1979–80 and 1981–1991 – Professor at the Computer Science Department of the State University of New York at Albany (SUNYA)
- 1977-2002 Visiting positions at several institutions, including IBM Research (Yorktown), Institute for Advanced Study, Princeton, NJ, CS Departments of Columbia and Stanford Universities, INRIA, France, and International Computer Science Institute (ICSI) and Math Science Research Institute (MSRI), both at Berkeley, CA.  
1969–76 – Senior Researcher  
Department of Models for National Economy  
Institute of Economics, Academy of Science, Moscow, Russia
- 1965–69 – Senior Researcher  
Department of Computations for Economics  
Institute of Electronic Control Machines, Moscow, Russia
- 1964–65 – Junior Researcher  
Department of Computations for Economics  
Institute of Electronic Control Machines, Moscow, Russia

### 2.2 CONSULTING:

- ATT Bell Laboratories, Murray Hill, New Jersey, 1991–1993
- General Electric Research and Development Center, Schenectady, New York, 1980

## 3 PROFESSIONAL SOCIETIES; RESEARCH AREAS

### 3.1 MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- American Mathematical Society, since 1977  
*Designation of AMS Fellowship “For Contributions to the Mathematical Theory of Computation”, 2013*

- Association for Computing Machinery, since 1977
- Society for Industrial and Applied Mathematics, since 1977
- European Association for Theoretical Computer Science
- International Linear Algebra Society

### 3.2 AREAS OF RESEARCH SPECIALIZATION

- Design and Analysis of Algorithms
- Polynomial Computations, General Matrix Computations
- Structured Matrix Computations
- Randomized Matrix Computations
- Numerical Algorithms
- Symbolic Algorithms
- Symbolic–Numerical Algorithms
- Graph Algorithms

## 4 GRANTS AND AWARDS:

- *Special Creativity Extension Award from the Numeric, Symbolic, and Geometric Computation Program of the CCR Division in the Directorate CISE of NSF (1993)*
- *Best Paper Award 2000, Journal of Complexity: \$3,000 (shared)*
- *NSF Grants (individual): \$1,931,143 (1980–2016)*
- *NSF Grants (joint): \$1,056,241 (2016–2021)*
- *29 PSC-CUNY Awards (individual): \$135,077, 1989–2021*
- CUNY Institute for Software Design and Development Grants: \$8,000, 2001–2002
- Shuster Foundation Award: \$4,000, 1994–2000
- Lehman College CUNY, Faculty Award for Research and Scholarship: \$1,000, 1994
- Institute for Advanced Study, Grant: \$13,000, 1980–81
- SUNY University Award: \$2,000, 1980

## 4.1 MOST RECENT:

- NSF Grant (individual) CCF-1116736,  
“Novel Methods for Fundamental Matrix and Polynomial Computations”, \$350,000  
(from 8/1/2011 to 12/31/2016)
- NSF Grant (joint: A. Ovchinnikov – PI, V. Pan – co-PI, and C. Yap – co-PI) CCF  
- 1563942 AF: Medium: Collaborative Research: Numerical Algebraic Differential  
Equations, \$608,205 (from 7/1/2016 to 6/30/2021)
- NSF Grant (joint: Bo Yuan – PI, V. Pan – co-PI, and Xue Lin – co-PI) AitF, CCF-  
133834, Medium: Collaborative Research: A Framework of Simultaneous Accelera-  
tion and Storage Reduction on Deep Neural Networks Using Structured Matrices,  
\$448,086.00 (from 9/15//2017 to 12/31/2021)
- PSC CUNY AWARD 62797-00 50: \$11,999.74 (from 6/30/2019 to 12/31/ 2020)
- PSC CUNY AWARD 63677-00 51: \$5,999.87 (from 7/1/2020 to 6/30/2021)

## 5 SERVICE TO PROFESSION

### 5.1 JOURNAL EDITING

#### Area Editor:

- Theoretical Computer Science (since 1985 to present)
- Computers and Mathematics (with Applications), (1980–2011)
- Calcolo (since 1999–2020)

#### Special Issues (Corresponding and Managing Editor):

- I. Z. Emiris, B. Mourrain, V. Y. Pan, Guest Editors. Special Issue on Algebraic and  
Numerical Algorithms, Theoretical Computer Science, 315, 2–3, 307–672, 2004
- Special Issue on Symbolic–Numerical Algorithms (D. A. Bini, V. Y. Pan, and J. Ver-  
schelde editors), Theoretical Computer Science, 409, 2,155–331, 2008
- Special Issue on Algebraic and Numerical Algorithms (I. S. Kotsireas, B. Mourrain,  
and V. Y. Pan, editors), Theoretical Computer Science, 412, 16, 1443–1543, 2011
- Special Issue on Algebraic and Numerical Algorithms (I. S. Kotsireas, B. Mourrain,  
V. Y. Pan, and Lihong Zhi, editors), Theoretical Computer Science, 479, 1–186, 2013

### 5.2 PROGRAM AND SCIENTIFIC COMMITTEES MEMBER

- ACM Annual International Symposium on Symbolic and Algebraic Computation (IS-  
SAC 1999), Vancouver, British Columbia, Canada, July-August 1999
- ACM Annual International Symposium on Symbolic and Algebraic Computation (IS-  
SAC 2007), Waterloo, Ontario, Canada, July-August 2007

- The 2nd International Workshop on Symbolic-Numeric Computation (SNC 2007), London, Ontario, Canada, July 2007
- The Annual International Conference on Polynomial Computer Algebra, St. Petersburg, Russia, Aprils of 2008–2017 (Ten Committees)
- The 4th International Workshop on Symbolic-Numeric Computation (SNC 2011), San Jose, California, June 2011
- International Symposium on Linear Algebra (ILAS 2013), Providence, RI, June 2013
- The 5th International Workshop on Symbolic-Numeric Computation (SNC 2014), Shanghai, China, July 2014

### **5.3 LOCAL CHAIR**

ACM Annual International Symposium on Symbolic and Algebraic Computation (ISSAC 2018), New York, NY, the Graduate Center of CUNY, July 2018

### **5.4 OTHER PROFESSIONAL ACTIVITIES**

- Organization of Conferences and Conference Minisymosia
- Refereeing and Reviewing for Professional Journals, Conferences and Surveys
- Lectures and Invited Lectures at Conferences in Computer Science, Mathematics, and Applied Mathematics in North and South Americas, Europe, Asia, and Australia (see the Lists of Publications and Talks at the Conferences)
- Colloquium Lectures at the Universities and Research Centers

## **6 SERVICE TO LEHMAN COLLEGE AND CUNY**

### **6.1 SERVICE TO LEHMAN COLLEGE:**

- Personnel and Budget Committee Member, 2017–2021
- Supervising Syllabi in Computer Science
- Advising students in Mathematics and Computer Science
- Observing Junior Instructors in Mathematics and Computer Science

### **6.2 SERVICE TO CUNY:**

- Teaching at the Graduate School and University Center (1989–2017, except for the sabbatical year of 1996–97)
- Advising of Ph.D. Students: 23 Ph.D. Defenses (see the List of Ph.D. Defenses)
- Serving As the Chair of 23 PhD Defense Committees in Mathematics and Computer Science (since 1991)
- Member of Distinguished Professor Selection Committee (2005–2007, 2013 and 2016)

- Member of the Leadership Committee of PhD Program in Computer Science (member, 2012–2013)
- Member of the PhD Defense Committees in Mathematics (13) and Computer Science (13) since 1991

## 7 Ph.D. STUDENTS OF CUNY SUPERVISED AND MENTORED BY VICTOR PAN

STUDENT NAME, PhD THESIS DEFENSE, GRADUATION DATE, Ph.D. PROGRAM

- Atinkpahoun, A., April 11, 1995; June 1995, Computer Science
- Cebecioglu, H., May 23, 2001; October 2001, Mathematics
- Chakraborty, H., April 16, 2021; June 2021, Computer Science
- Chen, Z.Q., November 9, 1999; February 2000, Mathematics
- Dias, O., November 26, 1996; January 1997, Mathematics
- Huang, X., July 1997; October 1997, Mathematics
- Landowne, E., November 1995; February 1996, Computer Science
- Lin, Y., March 1991; June 1991, Computer Science
- Luan, Q., March 27, 2020; August 2020, Mathematics
- Murphy, B., March 27, 2007; May 2007, Computer Science
- Providence, S., December 14, 1999; February 2000, Computer Science
- Rami, Y., February 22, 2000; June 2000, Mathematics
- Retamoso Urbano, I.O., December 17, 2014; February 2015, Mathematics
- Rosholt, R.E., April 4, 2003; May 2003, Computer Science
- Sadikou, A., January 12, 1996; October 1996, Computer Science
- Serme, A., February 2008; May 2008, Mathematics
- Sobze, I., April 12, 1994; June 1994, Computer Science
- Stuart, C., April 1998; June 1998, Computer Science
- Svadlenka, J., April 3, 2020; June 2020, Computer Science
- Abu Tabanjeh, M.A., November 9, 1999; February 2000, Mathematics
- Taj–Eddin, I., March 27, 2007; September 2007, Computer Science
- Wang, X., April 4, 2003; May 2003, Mathematics
- Wolf, J., January 7, 2015; May 2015, Mathematics

- Yan, X., January 29, 2015; February 2015, Computer Science
- Yu, Y., April 1998; June 1998, Computer Science
- Zhao, L., April 6, 2017, June 2017, Mathematics
- Zheng, A., October 16, 1997; January 1998, Mathematics

27 students have defended by June 2021

A. Atinkpahoun, O. Dias, S. Providence, A. Sadikou, A. Serme, and I. Sobze are African-Americans. H. Celecioglu, O. Dias, Y. Lin, and H. Chakraborty are females. At all the listed defenses, Victor Pan has served as the Mentor, the Adviser and the Chair of the Examination Committees, except that for H. Chakraborty he was a co-Adviser and a co-Chair.