

Tommy Kaplan, PhD

Contact Address

Prof. Tommy Kaplan
School of Computer Science and Engineering
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[Google Scholar](#): 4427 citations, H-index 28

Education

- 2002 – 2008** **Ph.D. in Computer Science and Computational Biology**
“From DNA Sequence to Chromatin Dynamics: Computational Analysis of Transcriptional Regulation”, under the supervision of Prof. Nir Friedman and Prof. Hanah Margalit, **School of Computer Science and Faculty of Medicine**, The Hebrew University, Jerusalem, Israel.
- 2000 – 2002** **M.Sc. in Computer Science**
The Hebrew University, Jerusalem, Israel.
- 1998 – 2000** **B.Sc. in Computer Science and Cognitive Studies**
The Hebrew University, Jerusalem, Israel
- 1996 – 1997** **B.Sc. studies in Mathematics and Computer Science**
Tel-Aviv University, Israel.

Appointments

- 2012 –** **Associate Professor** for Computer Science and Computational Biology
School of Computer Science and Engineering
The Hebrew university of Jerusalem
- 2015 –** **Head, Computer Science and Computational Biology Program**
The Hebrew University of Jerusalem
- 2008 – 2012** **Post-doctoral Fellow in Computational Biology**
University of California, Berkeley
Hosted by Prof. Michael B. Eisen, HHMI, QB3, MCB, UC Berkeley

Honors and Awards

- 2019** **Kaye Innovation Award** awarded to PhD student Josh Moss
- 2016** **Bergmann Memorial Research Award**
- 2009** **GE & Science Prize for Young Life Scientists**
“Rest of the World” regional winner
- 2008 – 2010** **EMBO long-term post-doctoral fellowship**
- 2008** Candidate for the 2008 **ACM Doctoral Dissertation** award
- 2007** Distinguished Graduate Student prize, The Hebrew University
- 2006** **Barenholz Prize** for Applied Research
- 2005 – 2008** **Leibniz Center for Research in Computer Science student fellowship**
- 2004** **Keystone Symposia Scholarship Winner**
- 2002 – 2005** **Horwitz Fellowship** for Excellent Interdisciplinary Ph.D. students
- 2002 – 2005** **Eshkol Foundation scholarship** for Ph.D. students (waived)
- 2002** **Rector’s Award** for graduate students
- 2000** Selim and Rachel **Benin Award** for undergraduate students

Teaching

- 2015 – Algorithms in Computational Biology
- 2014 – Graduate seminar in Computational Biology
- 2014 – Computational Genomics
- 2013 – 2019 Systems Biology of Transcription
- 2013 – Advanced Practical Course in Machine Learning
- 2012 – Undergraduate seminar in Computational Biology
- 2012 – Lab in Computational Biology for CS students
- 2012 – 2015 High-throughput Methods in Genomics
- 2004 – 2008 Advisor for Undergraduate Research Projects
- 2005 – 2006 Undergraduate seminar in Computational Biology
- 2001 – 2004 Computational Bioskills Workshop
- 2000 – 2001 Computer Architecture (Teaching Assistant).

Selected Publications

- Naomi Habib, ... Feng Zhang, Tommy Kaplan, Aviv Regev, and Michal Schwartz
Disease-associated astrocytes in Alzheimer's disease and aging
***Nature Neuroscience*, 2020**
- Joshua Moss, ... Benjamin Glaser, Ruth Shemer*, Tommy Kaplan*, and Yuval Dor*
Comprehensive human cell-type methylation atlas reveals origins of circulating cell-free DNA in health and disease
***Nature Communications*, 2018**
- Gil Ron, Yuval Globerson, Dror Moran, and Tommy Kaplan
Promoter-Enhancer Interactions Identified from Hi-C Data using Probabilistic Models and Hierarchical Topological Domains
***Nature Communications*, 2017**
- Yuval Malka, ... Hanah Margalit, Tommy Kaplan* and Michael Berger*
Post-transcriptional 3'UTR cleavage of mRNA transcripts generates thousands of stable uncapped autonomous RNA fragments
***Nature Communications*, 2017**
- Xiao-Yong Li, ... Tommy Kaplan*, and Michael Eisen*
Establishment of regions of genomic activity during the Drosophila maternal to zygotic transition
***eLife*, 2014**
- Axel Visel, ... Tommy Kaplan, Eddy Rubin, Len Pennacchio, and John Rubenstein
A High-Resolution Enhancer Atlas of the Developing Telencephalon
***Cell*, 2013**
- Dalit May, ... Tommy Kaplan, Eddy Rubin, Len Pennacchio, and Axel Visel
Large-scale discovery of Enhancers from Human Heart Tissue
***Nature Genetics*, 2012**
- Andrew Capaldi, Tommy Kaplan, ... Aviv Regev, Nir Friedman, and Erin O'Shea
Structure and Function of a Transcriptional Network Activated by the MAPK Hog1
***Nature Genetics*, 2008**
- Michael Dion*, Tommy Kaplan*, ... Nir Friedman, and Oliver Rando
Dynamics of replication-independent histone turnover in budding yeast
***Science*, 2007**
- Chih-Long Liu*, Tommy Kaplan*, ... Nir Friedman, and Oliver Rando
Single-Nucleosome Mapping of Histone Modifications in *S. cerevisiae*
***PLoS Biology*, 2005**

Journal Referee or Editor:

PLoS Genetics (Guest Editor), Nature, Nature Communications, PNAS, PLoS Computational Biology, Developmental Cell, Genome Biology, Genome Research, eLife, NAR, Genetics, Nature MSB, Bioinformatics, Journal of Computational Biology, BMC Bioinformatics