

Dror Bar-Natan — Curriculum Vitae (Short)

Full version at <https://drorbn.net/home/Profile/>

Last updated: Apr. 17, 2024

Web: <https://drorbn.net/home>.

Email: drorbn@math.toronto.edu.

Office: Bahen Centre 6178, 40 St. George St., Toronto ON M5S 2E4, Canada.

Age now: 56. Born January 30th, 1966. Holds Israeli, US, and Canadian citizenships.

1982–1984: B.Sc. in mathematics, Tel Aviv University, *summa cum laude*.

1984–1987: Military service (taught high school level mathematics).

1987–1991: Ph.D. in mathematics, Princeton University. Title: *Perturbative aspects of the Chern-Simons topological quantum field theory*. Advisor: Professor Edward Witten.

1991–1995: Benjamin Peirce Assistant Professor at Harvard University.

1995–1997: Senior Lecturer of Mathematics at the Hebrew University, Jerusalem.

1997–2004: Associate Professor of Mathematics at the Hebrew University, Jerusalem.

1999–2000: On sabbatical in Berkeley; fall semester as a “Visiting Miller Professor” at the University of California, spring semester at MSRI.

2002–2006: Associate Professor of Mathematics at the University of Toronto.

From July 2006: Professor of Mathematics at the University of Toronto.

Author of 45 peer-reviewed publications, about 16 other publications, speaker in about 259 events (since 1998), teacher of about 69 classes, supervisor of about 35 students (summer projects to PhD) and 9 post-doctoral fellows, recipient of about 11 research grants.

Selected Publications.

- *On the Vassiliev Knot Invariants*, *Topology* **34** (1995) 423–472.
- *Non-Associative Tangles*, in *Geometric topology* (proceedings of the Georgia international topology conference), (W. H. Kazez, ed.), 139–183, Amer. Math. Soc. and International Press, Providence, 1997.
- With S. Garoufalidis, *On the Melvin-Morton-Rozansky Conjecture*, *Inventiones Mathematicae* **125** (1996) 103–133.
- *Lie Algebras and the Four Color Theorem*, *Combinatorica* **17-1** (1997) 43–52.
- *On Associators and the Grothendieck-Teichmüller Group*, *Selecta Mathematica (New Series)* **4** (1998) 183–212.
- With S. Garoufalidis, L. Rozansky, and D. P. Thurston, *Wheels, Wheeling, and the Kontsevich Integral of the Unknot*, *Israel Journal of Mathematics* **119** (2000) 217–237.
- With S. Garoufalidis, L. Rozansky, and D. P. Thurston, *The Århus Integral of Rational Homology 3-Spheres I: A Highly Non Trivial Flat Connection on S^3* , *Selecta Mathematica, New Series* **8** (2002) 315–339.

Dror Bar-Natan's World-Wide-Web Home Page

<https://www.math.utoronto.ca/~drorbn/>

[© Publications](#) [Talks](#) [Classes](#) [Students](#) [Profile](#) [KAtlas](#) [Pensieve](#) [Wiki](#) [Album](#) [Gallery](#) [Codes](#) [Misc](#) [Random](#)

Dror Bar-Natan

Professor, [Department of Mathematics](#), [University of Toronto](#), Toronto, Ontario, [Canada](#).

Office: [Bahen Centre Room 6178](#).

E-Mail: drorbn@math.toronto.edu.

[Slow Mail and Map \(@N43.659513 W79.397751\)](#).



[In hyper-famous. Click to see how](#)



[Publications](#)



[Talks](#)



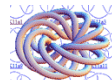
[Classes](#)



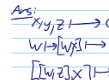
[Students](#)



[Profile](#)
(CV, statements, opinions)



[The Knot Atlas](#)



[Academic Pensieve](#)



[Dror Bar-Natan: Wiki](#)



[Album](#)



[Image Gallery](#)



[Bible Codes](#)

(I'm out! :-)



[Odds, Ends, Unfinished](#)

[≤ A ≥](#) I don't understand supersymmetry.

Online since [1994!](#)
[Copyleft Notice](#)

- With B. McKay, M. Bar-Hillel and G. Kalai, *Solving the Bible Code Puzzle*, *Statistical Science* **14-2** (1999) 150–173.
- With T. Q. T. Le and D. P. Thurston, *Two Applications of Elementary Knot Theory to Lie Algebras and Vassiliev Invariants*, *Geometry and Topology* **7-1** (2003) 1–31.
- *Khovanov's Homology for Tangles and Cobordisms*, *Geometry and Topology* **9-33** (2005) 1443–1499.
- *Fast Khovanov Homology Computations*, *Journal of Knot Theory and its Ramifications* **16-3** (2007) 243–255.
- *Balloons and Hoops and their Universal Finite Type Invariant, BF Theory, and an Ultimate Alexander Invariant*, *Acta Mathematica Vietnamica* **40-2** (2015) 271–329, [Web/papers/KBH/](#).
- With Z. Dancso, *Finite Type Invariants of W-Knotted Objects II: Tangles, Foams, and the Kashiwara-Vergne Problem*, *Mathematische Annalen* **367** (2017) 1517–1586, [arXiv:1405.1955](#).
- With R. van der Veen, *A Perturbed-Alexander Invariant*, to appear in *Quantum Topology*, [arXiv:2206.12298](#), 24pp.