

Charles W. Rezk

Curriculum Vitae

Work Address

Department of Mathematics
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Education

University of Pennsylvania

1987—1991

B.A. in mathematics, *summa cum laude*, May 1991. Phi Beta Kappa.
M.A. in mathematics, May 1991.

Massachusetts Institute of Technology

1991—1996

Ph.D. in pure mathematics.
Date of graduation: May 1996.
Thesis title: “Spaces of Algebra Structures and Cohomology of Operads.”
Thesis advisor: Michael J. Hopkins.

Academic Positions

Northwestern University (Evanston, IL)

1996—2001

Ralph P. Boas Visiting Assistant Professor (9/1996–8/1999).
Instructor (9/1999–8/2001).

Institute for Advanced Study, (Princeton, NJ) 9/1999—3/2000 and 1/2001—3/2001
Member. (On leave from Northwestern University, 9/99–3/00 and 1/00–3/00.)

Massachusetts Institute of Technology (Cambridge, MA)

1/2006–5/2006

Visiting teaching position. (Unpaid leave from UIUC.)

University of Illinois at Urbana-Champaign

Assistant Professor of Mathematics
Associate Professor of Mathematics

2001—2006

2006—present

Honors

Alfred P. Sloan Doctoral Dissertation Fellowship

1995—1996

AMS Centennial Fellowship

1999—2000

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*Publications and Creative Works*¹

Doctoral Thesis. “Spaces of Algebra Structures and Cohomology of Operads.” (MIT, 1996)

Publications.

1. “Notes on the Hopkins-Miller theorem.” In *Homotopy Theory via Algebraic Geometry and Group Representations*, Contemporary Mathematics 220, Amer. Math. Soc., 1998, pp. 313–366.
2. “Brown-Comenetz duality and the Adams spectral sequence,” with Mark Mahowald. In *American Journal of Mathematics* **121** (1999), pp. 1153–1177.
3. “A model for the homotopy theory of homotopy theory.” *Trans. Am. Math. Soc.* **353** (2001), 973–1007.
4. “Simplicial structures on model categories and functors,” with B. Shipley and S. Schwede. *Am. J. of Math.* **123** (2001), 551–575.
5. “Every homotopy theory of simplicial algebras admits a proper model.” *Topology and its Applications*, **119** (2002), 65–94.
6. “Topological resolutions of the $K(2)$ -local sphere,” with P. Goerss, H.-W. Henn, and M. Mahowald. *Annals of Mathematics*, **162** (2005), 777–822.
7. “The units of a ring spectrum and a logarithmic cohomology operation.” *Journal of the American Mathematical Society*, **19** (2006), 969–1014.
8. “Topological modular forms of level 3,” with M. Mahowald. *Pure and Applied Math. Quarterly*, **5** (2009).
9. “Units of ring spectra and Thom spectra,” with M. Ando, A. Blumberg, D. Gepner, and M. Hopkins. Submitted to *Geometry & Topology*.
10. “A cartesian presentation of weak n -categories.” Submitted to *Geometry & Topology*.
11. “The congruence condition for power operations in Morava E -theory.” Submitted to *Homology, Homotopy, and Applications*.

¹All papers and preprints are available from <http://www.math.uiuc.edu/~rezk>.