

# Curriculum vitae

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**Name:** Van H. Vu

**Contact information.** Department of Mathematics, 10 Hillhouse Ave, New Haven, CT 06520.

## **Affiliation.**

2012-: Percy F. Smith Professor of Mathematics, Yale.

July 2011- : Professor, Department of Mathematics, Yale.

July 2009-June 2011: Professor II, Department of Mathematics, Rutgers.

September 2005-June 2009: Professor I, Department of Mathematics, Rutgers.

Septemebr 2007-December 2007, Institute for Advance Study, Leader of Focus program "Arithmetic Combinatorics".

June 2006-July 2006: Visiting Professor, Institute Henry Poincare, Paris.

July 2005-September 2005: Professor, Department of Mathematics, UCSD.

July 2003-June 2005: Associate Professor, Department of Mathematics, UCSD.

July 2001- June 2003: Assistant Professor, Department of Mathematics, UCSD.

June 1999-June 2001: Postdoc Researcher, Theory group, Microsoft Research.

September 1998-June 1999: Member, Institute for Advance Study, Princeton.

## **Education.**

1994-1998: Yale University, Department of Mathematics. Ph.D awarded May 1998 (Advisor Prof. L. Lovász).

1989-1994: Eötvös Univerisity (Budapest, Hungary). University Diploma in Mathematics awarded June 1994 (Advisor Prof. T. Szönyi).

## **Awards, honors**

2014, Invited speaker, ICM (Seoul).

2012, Fulkerson prize (American Mathematics Society and Mathematical Optimization Society).

2012, Medallion lecturer, eight World Congress in Probability and Statistics (Istanbul).

2009, Plenary speaker, joint Korea-US Mathematics meeting.

2008, George Pólya prize (Society of Industrial and Applied Mathematics).

2007 (Fall) Leader of focus program "Arithmetic Combinatorics", Institute for Advance Study.

2007, 2005-2006, 1998-1999 Membership, Institute for Advance Study.

2002, NSF Career Award.

2002 A. Sloan research fellowship.

1997-1998 A. Sloan dissertation fellowship.

**Research Interest.** Combinatorics, Probability, Additive Number Theory and Theoretical Computer Science.

**Former PhD. Students.** L. Wu (Ph.D 2006, San Diego, currently at Bosch Research), K. Costello (Ph.D 2007, Rutgers, currently tenure track professor at UC Riverside), P. Wood (Ph.D 2009, currently tenure track professor at U. Wisconsin-Madison) H. Nguyen (Ph. D 2010, currently tenure track professor at OSU), L. Tran (2011, Rutgers, currently tenure track at International University, HCM city), K. Wang (2013, Rutgers, currently postdoc at IMA).

Current students: S. Herdade (Rutgers, joint with E. Szemerédi), Oanh Nguyen (Yale), Kyle Luh (Yale), Lam Pham (Yale).

**Former postdoc.** D. Hart (Rutgers), G. Kun (Rutgers and Dimacs).

Current postdoc. K. Dang, S. O'Rourke, D. Fresen, A. Ferber (Yale).

**Presentations.** About 120 invited lectures.

**Publications.** About 120 articles and one research monograph.

**Referee.**

Editor: *Combinatorica*, *Journal of Combinatorial Theory A*, *Combinatorica*, *Communications in Contemporary Mathematics*, *Random matrix: Theory and Application*, *Acta Mathematica Vietnamica*.

Referee: *Combinatorica*, *Random Structures and Algorithms*, *Journal of Combinatorial Theory*, *Israel Math. Journal*, *Duke Math. Journal*, *GAGA*, *J.A.M.S*, *Annals of Probability*, *Annals of Mathematics*, *Acta Mathematica* etc.

Panelist: NSF panels. Outside referee: NSA, Israel national research foundation, ERC Advanced Research Grants (EU).

**Organizing.**

ICERM workshop on eigenvectors and applications, May 2014 (with P. Jones et. al.)

IMA workshop on Additive Combinatorics, September 2014 (with Conlon et. al.)

AMS short course on Random Matrices, AMS annual meeting, San Diego 2013.

Random matrices, workshop, American Institute of Mathematics, Dec 2010 (with T. Tao).

Additive combinatorics, mini-symposium, SIAM Discrete Math, June 2010.

Random matrices, Dimacs workshop, Spring 2008, Rutgers.

Additive combinatorics, Focus Program, Fall 2007, IAS (Princeton), (with J. Bourgain).

Conference in Arithmetic Combinatorics, IAS, Dec 2007 (with J. Bourgain).

Special section in Probability and Combinatorics, AMS meeting, Rutgers, Oct 2007 (with J. Kahn).

Conference in Probabilistic Combinatorics, Banff Center, Nov. 2005 (with N. Alon, B. Reed and B. Sudakov).

Additive Combinatorics, section at AMS meeting, Santa Barbara, April 2005 (with M.C. Chang).

Conference in Additive Combinatorics, AIM, Palo Alto, September 2004 (with T. Tao).

Probabilistic Combinatorics, section meeting at SIAM Discrete Math. conference, August 2004 (with B. Sudakov).

Probability in combinatorics and the Internet, section at the annual meeting of the AMS, San Diego, Jan 2002 (with F. Chung).