

Adrian Poon Chuan Lim

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- OBJECTIVE** A tenure track position for teaching and research in the field of Mathematics with research interests in *Infinite Dimensional Analysis*, *Stochastic Processes* and *Mathematical Physics*.
- CURRENT POSITION** *NTT Assistant Professor, Mathematics* Aug 2007 - May 2010
Vanderbilt University, Nashville
- EMPLOYMENT HISTORY** *Visiting Assistant Professor, Mathematics* Aug 2006 - May 2007
Cornell University, Ithaca
- Research Assistant* Summers 2002, 2003
Noncommutative Algebra,
University of California, San Diego (UCSD)
- Teaching Assistant* Sep 2001 - June 2006
UCSD Mathematics
- Part Time Education Officer* Jan 1999 - Sep 2001
Singapore Science Center, Singapore
- EDUCATION** *PhD, Mathematics* June 2006
UCSD, CA
Advisor: Prof Bruce Driver
- Master of Arts, Mathematics* June 2004
UCSD, CA
- Master of Science, Mathematics* Sep 2001
Bachelor of Science with 1st Class Honors Sep 2000
National University of Singapore (NUS), Singapore
Advisor: Dr Wong Yan Loi
Majors: Mathematics, Physics
- TEACHING EXPERIENCE** **Course Instructor** Aug 2007 - present
Vanderbilt University Mathematics Department
1. First Year Calculus 150A (Fall 07)
- Course Instructor** Aug 2006 - May 2007
Cornell University Mathematics Department
1. Calculus 2 (Spring 07).
2. Calculus for Engineers (Fall 06).
3. Lebesgue Integration and Measure (Fall 06).

PUBLICATIONS

1. 2007: *Regularity of solutions to Poisson's Equation for an Operator associated to a Pure Jump Process.* (Preprint.)
2. 2007: *Fredholm Determinant of an Integral Operator driven by a Diffusion Process.* (Preprint.)
3. 2007: A Non-standard Geometric Quantization of the Harmonic Oscillator, *J. Math. Phys.*, **48** 092105(2007).
4. 2007: Path integrals on a compact manifold with non-negative curvature, *Reviews in Mathematical Physics* **19** (2007), no. 9, 967–1044.
5. 2003: *Noncommutative Polynomials Which are Matrix Convex in Some of its Variables have Degree 2 or less.* (Preprint)
6. 2001: *Vassiliev Invariants of Periodic Knots.* (Preprint)

CONFERENCES TALKS

1. Participant in 3rd Cornell Probability Summer School, Cornell University, Math Department, June 18 - June 29, 2007.
2. Presented a talk 'Path Integral Quantization' in the Analysis Seminar in University of Connecticut, Math Department, Mar 2, 2007.
3. Presented a recruitment talk 'Path Integral Quantization' in Northwestern University, Math Department, Jan 29, 2007.
4. Presented a talk 'Path Integral Quantization' in the Math/Physics Seminar in University of Virginia, Math Department, Jan 17, 2007.
5. Final Defense talk 'Path Integrals on a Compact Manifold with Non-negative Curvature' in University of California, San Diego, June 16, 2006
6. Presented a talk 'Path Integrals on a Compact Manifold with Non-negative Curvature' in *The Feynman Integral and Related Topics in Mathematics and Physics*, University of Nebraska Lincoln, May 12-14, 2006
7. Presented a recruitment talk 'Finite Dimensional Approximations to Wiener Measure on a Compact manifold with Positive Curvature' in University of Kansas, Math Department, Jan 23, 2006.
8. Presented a talk 'Finite Dimensional Approximations to Wiener Measure on a Compact manifold with Positive Curvature' in AMS/MAA Joint Meeting, San Antonio, TX, Jan 13, 2006
9. Participant in *Conference on Martingale, Potential Theory and Stochastic Analysis*, University of Florida, Nov 10-12, 2005.