## LIM Poon Chuan Adrian

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RESEARCH INTERESTS	Stochastic Analysis, Infinite Dimensional Analysis, Gauge Theories, Heat kernel Analysis.		
CURRENT POSITION	Assistant Professor, Mathematics National Institute of Education, Singapore	28 Feb 2011 - present	
EMPLOYMENT HISTORY	1. Postdoc, Mathematics University of Luxembourg, Luxembourg	24 Feb 2009 - Feb 23 2011	
	2. NTT Assistant Professor, Mathematics Vanderbilt University, Nashville	1 Sep 2007 - Aug 31 2008	
	3. Visiting Assistant Professor, Mathematics Cornell University, Ithaca	Aug 2006 - May 2007	
	4. Research Assistant Noncommutative Algebra, University of California, San Diego (UCSD)	Summers 2002, 2003	
	5. Teaching Assistant UCSD Mathematics	Sep 2001 - June 2006	
SHORT TERM VISIT	Department of Mathematics National Taiwan University, Taiwan	29 May 2008 - 10 July 2008	
EDUCATION	<ol> <li>PhD, Mathematics University of California, San Diego (UCSD), Califord Advisor: Prof Bruce Driver</li> </ol>	16 June 2006 ornia	
	2. Master of Arts, Mathematics UCSD, California	11 June 2004	
	<ol> <li>Master of Science, Mathematics Bachelor of Science with 1<sup>st</sup> Class Honours, Mathe National University of Singapore (NUS), Singapore Advisor: Dr Wong Yan Loi</li> </ol>	20 Nov 2001 ematics 5 Aug 2000 e	
	4. Bachelor of Science Majors: Mathematics, Physics	4 Aug 1999	
PUBLICATIONS	<ol> <li>2012: Asymptotic estimates on the time derivative of entropy on a Riemannian manifold; Joint with Dejun Luo, <i>To appear in Advances in Geometry</i>.</li> <li>2011: Non-Abelian Gauge theory for Chern-Simons Path Integral on R<sup>3</sup>, Ac-</li> </ol>		
	cepted by the Journal of Knot Theory and its Ramifications.		

 2011: Path space and free loop space, Bulletin of Belgian Mathematical Society 18 No. 3 (2011).

	<ol> <li>2011: Chern-Simons Path Integral on R<sup>3</sup> using Abstractmun. Math. Anal. 11 No. 2 (2011), 1-22.</li> <li>2008: Non-Commutative Partial Matrix Convexity; Je Hay and S. Mccullough., Indiana Univ. Math. J. 57 N</li> <li>2008: Fredholm Determinant of an Integral Operator Process, Journal of Applied Mathematics and Stochas Article ID 130940.</li> <li>2007: A Non-standard Geometric Quantization of the Math. Phys., 48 092105(2007).</li> <li>2007: Path integrals on a compact manifold with non views in Mathematical Physics 19 (2007), no. 9, 967-4</li> </ol>	t Wiener Measure, Com- oint with W. Helton, D. No. 6 (2008), 2815-2842. or driven by a Diffusion tic Analysis, vol. 2008, Harmonic Oscillator, J. -negative curvature, Re- 1044.	
TEACHING EXPERIENCE	Course Instructor National Institute of Education, MME 1. Calculus II, Aug 2011	Aug 2011- Dec 2011	
	2. Advanced Calculus and Applications for Educators, Aug 2011		
	Course Instructor University of Luxembourg, Mathematics Research Unit 1. Markov Chains, Spring 2010	Feb 2010 - June 2010	
	Course Instructor Vanderbilt University Mathematics Department 1. Second Year Calculus 150B (Spring 08)	Aug 2007 - May 2008	
	2. First Year Calculus 150A (Fall 07)		
	Course Instructor Cornell University Mathematics Department 1. Calculus 2 (Spring 07).	Aug 2006 - May 2007	
	2. Calculus for Engineers (Fall 06).		
	3. Lebesgue Integration and Measure (Fall 06).		