## Liang Ze WONG, PhD

Contact Information	Social & Cognitive Computing Departmentwonglz@ihpc.a-star.edu.sgInstitute of High Performance Computing+65 6419 14201 Fusionopolis Way, #16-16 ConnexisSingapore 138632	
Current Appointments	Since Aug 2022 Since Aug 2019	Adjunct Assistant Professor, NUS Business School Research Scientist, Institute of High Performance Computing
Areas of Expertise	Natural Language Processing, Machine Learning, Data Analytics, Graphical Models, Spectral Graph Theory, Quantitative Psychology, Category Theory, Homotopy Theory	
Education	Ph.D. in Mathematics, University of Washington, June 2019 The Grothendieck Construction in Enriched, Internal and ∞-category Theory Thesis Advisor: James J. Zhang	
	B.A. in Mathematic	cs, Cornell University, May 2012
	Magna cum laude, o	distinction in all subjects
TEACHING	Fall 2022	Foundations of Business Analytics (DBA 5106, Core Course for NUS M.Sc. in Business Analytics)
Grants & Projects	Aug $2022-{\rm May}\ 2023$	Team Effectiveness Profiling Scale and Digital Tool
	Jun 2022 – Sep 2023	PI, Industry Project Match.io Founder Matching Platform
	Dec 2021 – Dec 2023	PI, A*ccelerate Gap-funded Project (A*STAR) Operationalization & Correlates of Adolescent Mental Health
	Mar 2021 – Mar 2023	Co-PI, Social Sciences Innovation Seed Fund (A*STAR) Psychological Modelling of Online Personas
	Mar 2020 – Aug 2020	Scientist, Industry Project InPsyche Psychographics API for Consumer Segmentation
	11al 2020 11ag 2020	PI, A*ccelerate Gap-funded Project (A*STAR)
Honors and Awards	<ul> <li>2014 – 2019 A*STAR National Science Scholarship (PhD)</li> <li>2018 Ann Giles Graduate Fellowship, University of Washington, Seattle</li> <li>2014 Academic Excellence Award, University of Washington, Seattle</li> <li>2009 – 2012 A*STAR National Science Scholarship (BSS)</li> <li>2009 2nd Place, Freshman Math Prize, Cornell University</li> </ul>	
Past	May 2019– Jun 2019	Consultant, Ukusan Pte Ltd
Appointments	Sep 2012 – Aug 2014 Jun 2010 – Jul 2010 Mar 2009 – Jul 2009	Research Engineer, Institute for Infocomm Research Intern (Research Attachment), Institute for Infocomm Research Intern (Research Attachment), Institute for Infocomm Research
Invention Disclosures		
	= 1	namurthy, B.K. Quek, L.M. Tuan, <i>Platform for prototyping of charting apps for personality profiling</i> , IHPC-TD-SCC-2020-022

Publications	C. Kapulkin, Z. Lindsey and <b>L.Z. Wong</b> , A co-reflection of cubical sets into simpli sets, with applications to model structures, New York Journal of Mathematics (201		
	J. Beardsley and L.Z. Wong, <i>The Operadic Nerve, Relative Nerve, and the Grothendieck Construction</i> , Theory and Application of Categories, v34 (2019).		
	J. Beardsley and L.Z. Wong, <i>The enriched Grothendieck construction</i> , Advances in Mathematics, 344 (2019).		
	A. Chirvasitu, S.P. Smith and <b>L.Z. Wong</b> , <i>Noncommutative geometry of homogenized</i> quantum $\mathfrak{sl}(2,\mathbb{C})$ , Pacific Journal of Mathematics <b>292</b> (2018), no. 2, 305-354.		
		Chen, D.C.L. Chen and S.W.Lin, <i>Imputing Missing Values in Sensor</i> parse Data Representations, ACM MSWiM (2014).	
	<b>L.Z. Wong</b> , T.Q.S. Quek and M. Padilla, An Ordinal Potential Function for Network Selection in Heterogeneous Wireless Networks, IEEE ICASSP (2014).		
Invited Talks	A co-reflection of cubical sets into simplicial sets, Homotopy Type Theory and Universe Lent Foundations Workshop, Oslo, Norway. (June 2018)		
	Weak equivalences between categories of models of type theory, Joint Mathematics Meeting 2018, San Diego. (January 2018)		
	Distributive laws, strings attached, International Category Theory Conference 2017, University of British Columbia, Vancouver. (July 2017)		
SERVICE	Mar 2022	Judge for Singapore Science and Engineering Fair (SSEF) 2022. Science Centre Singapore.	
	Mar 2021	Judge for Singapore Science and Engineering Fair (SSEF) 2021.	
	Mar 2020 - 2021	Science Centre Singapore. Mentor for A*STAR-MOE Scientists-in-School Programme.	
	Feb 2021	Hwa Chong Institution. Judge for Raffles Science Symposium 2021.	
	Aug 2020	Raffles Institution. Segment Presenter for Royal Institute STAR Lecture 2020.	
		Science Centre Singapore.	
	Jul 2020	Judge for Science Buskers Festival Auditions. Science Centre Singapore.	
Languages	English, French, Chinese Python, Javascript, R, Matlab		
References	Joseph Simons, Social & Cognitive Computing Department, IHPC, Singapore, simonsj@ihpc.a-star.edu.sg James J. Zhang, Department of Mathematics, University of Washington, Seattle, zhang@math.washington.edu Chris Kapulkin, Department of Mathematics, Western University, London ON, kkapulki@uwo.ca		