TIANQI FENG tianqif@student.unimelb.edu.au — @ feng-tq.github.io — % (+61) 449 628 095

## EDUCATION

The University of N	Melbourne		Mar 2020 –	– Nov 2024	
Master of Science in N • Master's Thesis	<i>Aathematics and Statistics (Pure</i> : Split Polynomials and the Sulliv	<i>Mathematics)</i> — W van Conjecture [PDF	AM: 93.9 ]. Supervised by Diarmuid Cro	owley.	
Bachelor of Science in	Mathematics and Statistics (Sta	atistics/Stochastic Pr	ocesses) — WAM: 95.6		
Diploma in Languages (Japanese) — WAM: 85.3			$(WAM=Weighted\ A$	(WAM = Weighted Average Mark)	
Monash University			Feb 2019 –	– Dec 2019	
Monash University Ext	tension Program				
Scotch College			Feb 2014 –	– Dec 2019	
Dux of 2019 — ATAR: 99.95 (ATA			ATAR = Australian Tertiary Add	mission Rank)	
Seminar Particip	ATION				
Geometric Topolog Co-organiser and spear • Topics: Topolog	<b>39 Reading Group</b> <i>ker</i> çical K-theory, Bott Periodicity, F	Poincaré Duality.		2024	
Other Research	Experience				
Vacation Scholarsh • Research Projec	<b>ip Program</b> — The Universit t: Mixture Importance Sampling	ty of Melbourne with Control Variate	Dec 2022 – es. Supervised by Kostya Boro	– Feb 2023 vkov.	
AVVARDS	- Le wels in				
The University of Mell	bourne			2023	
F R Love Prize	Journe			2023	
The University of Mell	bourne			2023	
Dean's Honours List — Bachelor of Science			2020 & 20	021 & 2022	
The University of Mell	bourne				
John Macfarland E	xhibition			2021	
Molbourno Chanco	llor's Scholarship			2020	
The University of Mell	bourne			2020	
References					
Diarmuid Crowley [website]Marcy Robertson [website]Image: dcrowley@unimelb.edu.auImage: dcrowley@unimelb.edu.auImage: dcrowley@unimelb.edu.au			Jack Hall [⊕ website u ♀ jack.hall@unimelb	Jack Hall [⊕ website] എ jack.hall@unimelb.edu.au	
TEACHING EXPE	ERIENCE				
Private Tutoring			Feb 2020	— Present	
Australian Curriculum	Years 7–12, Olympiad training, I	individual tutoring on	line and face-to-face		
Languages					
English <i>Native</i>	Mandarin Chinese <i>Native</i>	Japanese Proficient	Latin <i>Familiar</i>		
Programming	Experience				
C, C++, Rust, Haskell,	Python, TFX & LATEX, JavaScrip	ot (familiar)			
PROJECTS		、 /			
Monte Carlo Dath					
GPU based path trace. Supports diffuse and s	r implementing the Monte Carlo pecular reflection/transmittance,	algorithm to simulat translucent material	e light transport. s, and multiple importance sa	mpling.	
Image Decomposit	ion using Colour Unmixing	— Python		-	

Implementation of colour unmixing algorithm that decomposes images into monochromatic layers. Based on 10.1145/3429341.3429354 and 10.1145/3072959.3002176