Contact Information	Department of Mathematics, UCSD 9500 Gilman Drive, La Jolla, CA 92093-0112	Homepage:http://www.math.ucsd.edu/~zim022/ ⊠ E-mail:zim022@ucsd.edu	
Research Interests	Differential geometry, partial differential equations, Ricci flow, mean curvature flow, Kähler geometry		
Education	<ul> <li>University of California, San Diego, La Jolla, Ph.D. program, Department of Mathematics Advisors: Prof. Bennett Chow, Prof. Lei Ni</li> <li>Xi'an Jiaotong University, Xi'an, China B.S., Mathematics and Applied Mathematics</li> </ul>	CA 2017–present. Ph.D. expected June 2022. 2013–2017	
PUBLICATIONS	<ol> <li>Bamler, Richard H; Chow, Bennett; Deng, Yu steady gradient Ricci solitons with 3-cylinds (2022): 108285.</li> </ol>	uxing; Ma, Zilu; Zhang, Yongjia. Four-dimensional rical tangent flows at infinity. Adv. Math., 401	
	<ol> <li>Ma, Zilu and Zhang, Yongjia. Perelman's entropy on ancient Ricci flows. J. Funct. Anal. 281 (2021), no. 9, Paper No. 109195, 31 pp.; MR4290285</li> </ol>		
	3. Chow, Bennett; Deng, Yuxing; Ma, Zilu. On four-dimensional steady gradient Ricci solitons that dimension reduce. Advances in Mathematics, to appear.		
	<ol> <li>Ma, Zilu; Liu, Shiqi; Meng, Deyu, et al. On convergence properties of implicit self-paced objective. Inform. Sci. 462 (2018), 132–140; MR3835143</li> </ol>		
Preprints	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. arxiv: 2202.13302 (2022).</li> </ol>	Volume growth estimates of gradient Ricci solitons	
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. The rate of F-convergence for Ricci flows with closed and smooth tangent flows. arXiv: 2202.02421 (2022).</li> </ol>		
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. Hamilton-Ivey estimates for gradient Ricci soli- tons. arxiv: 2112.11025 (2021).</li> </ol>		
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. A local Sobolev inequality on Ricci flow and its applications. arxiv: 2111.05517 (2021).</li> </ol>		
	<ol> <li>Bamler, Richard H; Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. An optimal volume growth estimate for noncollapsed steady gradient Ricci solitons. arXiv:2110.04661 (2021).</li> </ol>		
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. On Ricci flows with closed and smooth tangent flows. arXiv:2109.14763 (2021).</li> </ol>		
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. A uniform Sobolev inequality for ancient Ricci flows with bounded Nash entropy. arXiv:2107.01419 (2021).</li> </ol>		
	<ol> <li>Chan, Pak-Yeung; Ma, Zilu; Zhang, Yongjia. Ancient Ricci flows with asymptotic solitons. arXiv:2106.06904 (2021).</li> </ol>		
Selected Honors and Awards	• Summer Graduate Teaching Scholar, UCSD	2021	
	• 2019-2020 Mathematics Department TA Awa	ard, UCSD 2020	
	• Friends of International Center Fellowship, U	JCSD 2019	
	• James B. Ax Graduate Fellowship, UCSD	2017	
TEACHING	• Instructor of Analysis Boot Camp for new gr	raduate students, UCSD September, 2021	
	• Instructor of Math 18, Linear Algebra, UCSI	D Summer Session I, 2021	
	• Senior MATLAB TA, UCSD Summer, 2019 – present Coordinating the MATLAB components of Math 18 (Linear Algebra) and Math 20D (Introduc- tion to Differential Equations) with thousands of students enrolled in total each quarter.		

Talks	• Rutgers University, Geometric Analysis Seminar	2/22/2022	
	• University of Oregon, Geometric Analysis Seminar	11/9/2021	
	• UCSD Differential Geometry Seminar	3/31/2021	
	• UCSD Seminar on Cheeger–Colding theory, Ricci flow, Einstein metrics, and Related Topics		
		3/16/2021	
	• Advancement to candidacy	5/12/2020	
SERVICES	• AWM (American Women in Mathematics) Mentorship Program	Winter, 2022	
	• MAE Math Tutoring	Fall, 2021	