

## Chien-Cheng Hung, Ph.D.

My research interest lies in understanding the microphysical processes governing material deformation and failure under extreme conditions. During my PhD, I investigated fault mechanics and material behavior through a combination of experiments, microstructural analysis, and numerical modeling, gaining expertise in stress analysis, failure mechanisms, and material characterization. These insights are valuable for studying material reliability in semiconductor applications. I am detail-oriented and data-driven, committed to advancing materials research through microstructural insights and computational modeling.

	vancing materials research through		
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	——— Exp	oertise ———	
Material Characterization	Mechanical Property Analysis	Microstructural analysis	Thermo-Hydro-Mechanical Effects
Numerical Simulation	Machine Learning	Python Programming	Friction & Wear Testing
	Edu	cation ———	
PhD		— MSc	
Department of Earth Sciences / Utrecht University 08/2019 - 02/2024 The Netherlands		Department of Earth Sciences / National Central University 07/2015 – 07/2017 Taiwan	
BSc Department of Earth Science 09/2011 – 06/2015	ces / National Central University  Taiwan		
	Work E	xperience ——	
Postdoc researcher		Research assistant	
Department of Earth Sciences / Utrecht University  08/2024 - present  The Netherlands		Department of Earth Sciences / National Central University 09/2018 – 07/2019 Taiwan	
	———— Achie	vements ——	
analysis, reducing data p Built and validated a 3 improving understanding of Mentored BSc and MSc research skills and ensuring Collaborated with internal China Earthquake Admit Collaborated in the De	Drocessing time and enhancing D discrete element method (of fault dyanmic and failure measurements in DEM modeling at an experimental accuracy. In the mational research teams at Utinistration to enhance experimental experiment	image interpretation accurate (DEM) model to simulate echanisms.  Ind triaxial rock deformation to the control of the control	e granular material deformation, tion experiments, enhancing their ity of Twente, INGV (Italy), and
	——— Publi	cations ———	
derived fault gouges durin Geophysical Journal Internation Hung, C. C., Niemeijer, Conditions Relevant to Ear Hung, C. C., Niemeijer, A using 3-D discrete element: Kuo, L. W., Hung, C. C., longmenshan fault belt gou Research: Solid Earth, 127( Hung, C. C., Kuo, L. W., and frictional melting durin	ng simulated small-magnitude ear al, ggaf077.  A. R., & Vasconcelos, I. (2024). thquake Nucleation. Journal of Gen. R., Raoof, A., & Sweijen, T. (2024). Li, H., Aretusini, S., Chen, J., Dages from WFSD-3 and implication of the second state of the	Strain Localization in Sanceophysical Research: Solid Ea 123). Investigation of strain la 12974. In Toro, G., & Sheu, H. Sons for earthquake rupture foro, G., Wu, W. J., & Hsi	5). Dynamic weakening in sandstonedding and environmental conditions. Istone-Derived Fault Gouges Under 129(4), e2024JB028889. Isocalization in sheared granular layers (2022). Frictional properties of the propagation. Journal of Geophysical 129(4), e3024JB028889. Isocalization in sheared granular layers (2022). Frictional properties of the propagation. Journal of Geophysical 129(4), e3024JB028889. Isocalization in Section 129(4), e3024JB028889. Isocalization in sheared granular layers (2022). Frictional properties of the propagation. Journal of Geophysical 129(4), e3024JB028889. Isocalization in sheared granular layers (2022). Frictional properties of the propagation. Journal of Geophysical 129(4), e3024JB028889.
Mandanin	· ·	uages ———	Dutah
Mandarin Native or Bilingual Proficies	— English ncy Full Profession	nal Proficiency	<ul><li>Dutch</li><li>Elementary Proficiency</li></ul>