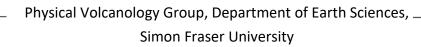
YU-YEN, PAN

yuyen pan@sfu.ca



SOMETHING ABOUT ME

I am a doctoral candidate at the Department of Earth Science, Simon Fraser University. My research focuses on optimizing natural hazard communication systems in Canada. To achieve this goal, I conducted a series of community-engagement works, trying to understand what factors mainly influence people's perception and preparedness, and come up with solutions to problems found. I also engage in a variety of science outreach (e.g., in-person workshops, exhibitions, geopark) and have a YouTube Channel to share our fascinating Earth with kids.

EDUCATION

Simon Fraser University, British Columbia, Canada

Ph.D. in the Department of Earth Sciences

• Research Topic: Effective communication before, during and after a natural hazard emergency

National Taiwan University, Taipei, Taiwan

M.Sc. in the Department of Geosciences

• Thesis: *Pennichnus formosae* igen. nov. isp. nov. – A deep-reaching L-shaped burrow in the Miocene Taliao Formation, northeastern coast of Taiwan

National Taiwan University, Taipei, Taiwan

B.Sc. in the Department of Geosciences

WORK EXPERIENCE

Research Assistant

Department of Geosciences, National Taiwan University, Taipei, Taiwan

- Designed a trace fossil exhibition "Curiosity Cabinet in Miocene" at Yehliu GeoPark
- Supported multiple fieldwork campaigns and lab analyses

Summer Internship

Discovery Networks Asia-Pacific, Taipei, Taiwan

- Produced 2 scripts for TV commercials and 7 online promotions which reach 59,781 views
- Analyzed current trends for campaign design
- Coordinated with external and internal teams for TLC Picnic Day and Discovery Hardcore Festival
- Assisted for various filming campaigns

Summer Internship

National Taiwan Museum, Taipei, Taiwan

• Assisted with organizing museum collections

Sept. 2012- June 2016

Sept. 2016- Jan. 2019

Jan. 2020- present

Feb. 2019- Present

July 2017- Sept. 2017

July 2015- Aug. 2015

SCIENCE COMMUNICATION EXPERIENCE

Volcanoes! Boom!	
Online / Taiwan Jan. 202	3
 Designed and conducted a series of activities about volcanoes for elementary students in Taiwan 	
Geoheritage Day	
Online / BC Oct. 202	2
 Designed and conducted a series of activities about landslides and mitigation strategies for 	
elementary students in Vancouver	
Pennichnus formosae Scicomm Campaign	
Online / Taiwan Jan. 2021-Oct. 202	2
• Produced a 5-min introductory video for the trace fossil Pennichnus formosae that I had studied in	
Taiwan, and the video received more than 10.8 K views within two weeks	
 Designed and built an interactive exhibition in the Yehliu Geopark 	
Volunteer for "Skype a scientist" Oct. 2020- Preser	t
Online / Global	
 Shared my career journey and answered questions from children from around the world 	
Organizer of Meet a Geologist Dec. 2020- Preser	t
Online / Taiwan	
 Created a Mandarin platform to connect geologists with classrooms in Taiwan 	
 Provides opportunities for youth to explore the world of geology 	
Initiator of "Rectification Acts: Sinat Tabuk (Tabuk cliff) is not basaltic!" Nov. 202	D
Online / Tabuk Tribe, Taichung, Taiwan	
Cooperated with indigenous communities and geologists in Taiwan to rename a tourist attraction	
which had a confusing name (The outcrop consists of sedimentary rocks but was called basalt by	
the tourism agency)	
Designed infographics for this work	
• This Rectification Acts was reported by Mandarin Daily News, a newspaper for children in Taiwan	
Speaker for "Build your own natural hazard: Virtual classroom" June 202	C
Online/ BC	
 Designed a series of experiments for children to explain how natural hazards are caused 	
Speaker for "Meet an SFU scientist" June 202	C
SFU Science Outreach	
Shared the research I am working on with high school students in British Columbia	
Curator of Exhibition: "Where do rocks go?" Oct. 2016- July 201	7
Huoyanshan Ecological Education Center, Miaoli, Taiwan	
• Designed a child-friendly exhibition to introduce basic geology through interactive storytelling	
• Organized a one-day field trip at Daan Gorge and presented the impact of Chi-Chi earthquake	
(1999), Taiwan	
Founder of PlaYinStones Studio Oct. 2015- Preser	t
Taipei, Taiwan	
• Pioneered the first Chinese YouTube channel for popularization of geology (Currently bilingual:	
English and Mandarin)	

- Launched 22 videos, numerous infographics, and 8 articles on multiple social media platforms (e.g., YouTube, Facebook, SciComm Website "Geostory")
- Organized a half-year workshop to guide students in Geoscience departments in the production of popular science videos

FUNDING/ PROPOSAL WRITING EXPERIENCE

Community-Engaged Research Funding Program, SFU (CAN\$ 5,000)

 Topic: "Effective Communication Methods Before, During and After a Natural Hazard Emergency: Village of Pemberton Case Study"

2021

SELECT HONOURS

- Best Student film Prize, On the Rocks Geological Film Festival, Italian Geological Society (2022): EU\$ 1000
- University Women's Club of Vancouver Trust Fund Graduate Scholarship in Earth Sciences, Simon Fraser University. British Columbia (2021 Summer): CAN\$ 2,400
- Graduate Fellowship, Simon Fraser University. British Columbia (2021 Summer): CAN\$ 7,000
- Vei Chow Juan Best Thesis award, Geological Society Located in Taipei, Taiwan (2020)
- *Honorary Membership*, The Phi Tau Phi Scholastic Honor Society of the Republic of China, Taiwan (2019)

PUBLICATIONS

- Miguez-Salas, O., Löwemark, L., **Pan, Y. Y.**, & Rodríguez-Tovar, F. J. (2021). Selective colonization after storm events in a delta environment: applied ichnology from the early Miocene of Taiwan. *Ichnos*, 1-13.
- Pan, Y.-Y., Nara, M., Löwemark, L., Miguez-Salas, O., Gunnarson, B., Iizuka, Y., Chen, T.-T., Dashtgard, S.E. (2021). The 20-million-year old lair of an ambush-predatory worm preserved in northeast Taiwan. *Nature Scientific reports*, *11*(1), 1-10.
- Vaucher, R., Dashtgard, S.E., Horng, C.-S., Dillinger, A., Pan, Y.-Y., Setiaji A.R., Chi, W.-R., & Löwemark L., (2021). Record of precession-driven coupled climate and extreme weather event cyclicity in shallow shelf strata. *Nature Scientific Reports*, In Review.
- Dashtgard, S.E., Löwemark, L., Vaucher, R., **Pan, Y. -Y.**, Pilarczyk, J.E., & Castelltort, S. (2020). Tropical cyclone deposits in the Pliocene Taiwan Strait: Processes, examples, and conceptual model. *Sedimentary Geology*, *405*, 105687.
- Yeh, C.-P., **Pan, Y.-Y.** and Löwemark, L. (2017). Clues to the behavior of juvenile crustaceans from a peculiar trace fossil (*Ophiomorpha*) at Fanziao. *Taiwan Natural Science*, *36*(2), 16-21.