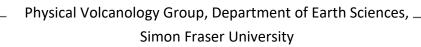
# YU-YEN, PAN

#### 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
<ul> <li>Designed and conducted a series of activities about volcanoes for elementary students in Taiwan</li> </ul>	
Geoheritage Day	
Online / BC Oct. 202	2
<ul> <li>Designed and conducted a series of activities about landslides and mitigation strategies for</li> </ul>	
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	
<ul> <li>Designed and built an interactive exhibition in the Yehliu Geopark</li> </ul>	
Volunteer for "Skype a scientist" Oct. 2020- Preser	t
Online / Global	
<ul> <li>Shared my career journey and answered questions from children from around the world</li> </ul>	
Organizer of Meet a Geologist Dec. 2020- Preser	t
Online / Taiwan	
<ul> <li>Created a Mandarin platform to connect geologists with classrooms in Taiwan</li> </ul>	
<ul> <li>Provides opportunities for youth to explore the world of geology</li> </ul>	
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	
<ul> <li>Designed a series of experiments for children to explain how natural hazards are caused</li> </ul>	
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.