

# SOPHIA J. PAN, PHD

Principal Investigator / Assistant Research Fellow

Research Center for Humanities and Social Sciences, National Yang Ming Chiao Tung University

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## – General Background –

### -- Education --

2018 Ph.D. | eLearning Division, Institute of Education, National Chiao Tung University, Taiwan

### -- Certification --

2022 Path2Integrity Certified Trainer  
<https://www.path2integrity.eu>

2010 Information Technology Expert: e-Learning Design IT Expert  
Issuer: Ministry of Economic Affairs, Taiwan

### -- Research Interest --

eLearning instructional design, development, and evaluation; research integrity and ethics education; research mentoring; scholarly publication ethics in the digital era

### -- Biography --

Dr. Pan is an assistant research fellow at the [Research Center for Humanities and Social Sciences](#) (RCHSS) at the National Yang Ming Chiao Tung University (NYCU), Taiwan. She has specific research interests in the best practices in ethics education, publication ethics in the digital era, and the challenges of supporting research integrity in the face of publication pressures (including the ethics of authorship and text recycling), particularly from an East Asian perspective.

Dr. Pan works with scholars in Taiwanese universities, research institutions, and government units and has broad responsibility for designing and implementing nationwide responsible conduct of research (RCR) training programs and conducting educational research. She has collaborated with the national research integrity educational program, the [Center for Taiwan Academic Research Ethics Education](#) (AREE), since the program was formally established in 2014 with the support of the Ministry of Education. In addition, Dr. Pan is a primary content contributor to the *Research Integrity Newsletter* published by the Office of Research Integrity, the National Science and Technology Council, and the *Academic Integrity Newsletter* produced by the Ministry of Education. She also serves on the supervisory board of the [Taiwan Association for Academic Ethics Education](#) (TAAEE).

Dr. Pan has published her research in journals such as *Science and Engineering Ethics* (international), *Ethics & Behavior* (international), *Journal of Educational Media & Library Sciences* (Taiwan), and *Journal of Library and Information Studies* (Taiwan) and has presented at the World Conference on Research Integrity (WCRI) and the Asia Pacific Research Integrity (APRI) Network Meeting, among others. Since July 2021, she has served on the Editorial Board of [Accountability in Research: Ethics, Integrity and Policy](#).

Dr. Pan earned her Ph.D. in Education (eLearning) from National Chiao Tung University, where her research centered on the development and evaluation of academic and research integrity education. Additionally, she underwent predoctoral and postdoctoral training at the [Research Ethics Program](#) at the University of California San Diego and the [Bioethics Research Center](#) at Washington University School of Medicine in St. Louis.

National Yang Ming Chiao Tung University was created in February 2021 through the merger of National Yang-Ming University and National Chiao Tung University.

## – Experience and Service –

### -- Experience (2016 ~ ) --

- 2023-08 – present**    **Adjunct Assistant Professor** | Center for Human Sciences (formerly Center for General Education), National Yang Ming Chiao Tung University
- 2020-11 – present**    **Assistant Research Fellow** | Research Center for Humanities and Social Sciences, National Yang Ming Chiao Tung University
- 2020-08 – 2020-10    Postdoctoral Researcher | Research Center for Humanities and Social Sciences, National Chiao Tung University
- 2019-08 – 2020-06    Postdoctoral Researcher | Bioethics Research Center at the Department of Medicine, Washington University School of Medicine in St. Louis, USA
- 2018-11 – 2019-07    Postdoctoral Researcher | eLearning Division, Institute of Education, National Chiao Tung University
- 2016-04 – 2017-04    Visiting Graduate Student | Research Ethics Program at the Department of Pathology, University of California San Diego, USA

### -- Publishing Service (International) --

- 2021-07 – present    Editorial Board | *Accountability in Research: Ethics, Integrity and Policy* (Covered in SCIE—Category of Medical Ethics)
- 2020      – present    Ad Hoc Peer Reviewer, including  
*Accountability in Research: Ethics, Integrity and Policy* (Covered in SCIE—Category of Medical Ethics)  
*Science and Engineering Ethics* (Covered in SCIE—History & Philosophy of Science and SSCI—Ethics)  
SIG: Online Teaching and Learning, The Annual Meetings of the American Educational Research Association (AERA)

### -- Effective Membership --

- 2022-03 – present    Member | American Educational Research Association (AERA)
- 2020-08 – present    Supervisor & Member | Taiwan Association for Academic Ethics Education
- 2020-01 – present    Member | Association for Practical and Professional Ethics (APPE), USA
- 2020-02 – present    Member & Contributor | APPE Research Integrity Scholars-Educators (RISE) Consortium, USA

### -- Academic Service (Taiwan) --

- 2020-08 – present    Supervisor | Taiwan Association for Academic Ethics Education
- 2020-08 – present    Primary Author | *Academic Integrity Newsletter*, published by the Department of Higher Education, Ministry of Education, Taiwan
- 2018-06 – present    Primary Author | *Research Integrity Newsletter*, published by the Office of Research Integrity, National Science and Technology Council, Taiwan
- 2015-10 – present    Nationwide Lecturer of Research Integrity Training
- 2014      – present    Project Executive Secretary & Instructional Designer | Center for Taiwan Academic Research Ethics Education, Ministry of Education, Taiwan
- 2018-11 – 2020-04    Draft Committee | *Taiwan Code of Conduct for Research Integrity 2020*, Published by University System of Taiwan (ISBN: 978-986-85735-3-6)

### – Honor and Award (2015 ~) –

- 2017-05 Poster Award—Third Prize, Poster: *The changes to the institutional research climate before and after the implementation of a nationwide research ethics education project in Taiwan*, The 5<sup>th</sup> World Conference on Research Integrity 2017, Amsterdam, Netherlands
- 2017-04 2017 The 7<sup>th</sup> Annual Integrity Awards: Research Integrity Award—Graduate Student Recipient, University of California San Diego, USA
- 2015-05 Selected Attendee of the 1<sup>st</sup> Doctoral Forum, The 4<sup>th</sup> World Conference on Research Integrity 2015, Rio de Janeiro, Brazil. May 31<sup>st</sup>, 2015

### – Research Projects –

#### -- Ongoing --

- 2021 – 2023** *The best choice among all good options: Developing and implementing a research integrity curriculum focusing on fostering students' professional decision-making by using an educational digital storytelling strategy*
- Role: Principal Investigator  
Grant Program: Research Projects for Junior Researchers  
Sponsor: National Science and Technology Council (NSTC), Taiwan

#### -- Closed --

- 2019 – 2020 *Serial study of mentorship instruction for early-career principal investigators: Needs assessment and design of interactive learning materials*
- Role: Principal Investigator (Postdoctoral Researcher)  
Advisor: James DuBois, DSc, PhD (Bioethics Research Center)  
Institution: Washington University School of Medicine in St. Louis  
Grant Program: Postdoctoral Research Abroad Program  
Sponsor: Ministry of Science and Technology (MOST), Taiwan
- 2016 – 2017 *The use of MOOCs for responsible conduct of research (RCR) education: The design and development of online Chinese instructional materials for higher-education students in Taiwan*
- Role: Principal Investigator (Doctoral Student)  
Advisor: Michael Kalichman, PhD (Research Ethics Program)  
Institution: Department of Pathology, University of California San Diego  
Grant Program: Graduate Student Abroad Program  
Sponsor: Ministry of Science and Technology (MOST), Taiwan

### – Semester-Length Teaching –

- 2022-02 – present** *Academic Research Ethics: Principles and Case Studies* | General Education Program, National Yang Ming Chiao Tung University, Taiwan
- 2021-09 – 2022-01 *Academic Writing and Research Integrity* | Self-Directed Learning Program, National Hsinchu Girls' Senior High School
- 2021-02 – 2021-06 *Seminar in E-learning: Academic Writing and Integrity (IED5224)* | Institute of Education, National Chiao Tung University

## – Publication (2015 ~ ) –

### -- Journal Papers--

- Chou, C., **Pan, S. J.-A.**, & Hsueh, M.-L. (2023). Assessment criteria for research misconduct: Taiwanese researchers' perceptions. *Accountability in Research—Ethics, Integrity and Policy*, 30(8), 613–632. <https://doi.org/10.1080/08989621.2022.2071155>.
- IF: 3.4.** Rank: 3/16 (Q1), Top 18.75% of SCIE—Medical Ethics in 2022 JCR metrics.
- Pan, S. J.-A.** (2022). Open access mega journals: Development, peer review mechanism, and suggested practices for the academia. *Journal of Educational Media & Library Sciences*, 59(3), 311–346. [https://doi.org/10.6120/JoEMLS.202211\\_59\(3\).0024.OR.AM](https://doi.org/10.6120/JoEMLS.202211_59(3).0024.OR.AM).
- Published in Chinese with an extended abstract and supplementary slides in English.  
**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.
- Pan, S. J.-A.** (2022). The publication ethics of preprints and preprints' influence on knowledge dissemination during the COVID-19 pandemic. *Journal of Educational Media & Library Sciences*, 59(1), 35–71. [https://doi.org/10.6120/JoEMLS.202203\\_59\(1\).0040.OR.BM](https://doi.org/10.6120/JoEMLS.202203_59(1).0040.OR.BM).
- Published in Chinese with an extended abstract and supplementary slides in English.  
**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.
- Chou, C., **Pan, S. J.-A.** & Lu, J.-L. (2022). Leading academic research: A preliminary study of Taiwan Social Sciences Citation Index-listed journals' policies regarding academic ethics. *Journal of Library and Information Studies*, 20(2), 95–127. [https://doi.org/10.6182/jlis.202212\\_20\(2\).095](https://doi.org/10.6182/jlis.202212_20(2).095).
- Published in Chinese with an extended abstract in English.  
**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.
- Chou, C., & **Pan, S. J.-A.**\* (2022). Analyses of US National Science Foundation's suspected incidents of noncompliance in research: 1989–2019. *Journal of Library and Information Studies*, 20(1), 66–99. [https://doi.org/10.6182/jlis.202206\\_20\(1\).069](https://doi.org/10.6182/jlis.202206_20(1).069). **\*corresponding author**
- Published in Chinese with an extended abstract in English.  
**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.
- Pan, S. J.-A.** (2021). Taiwanese and American graduate students' misconceptions regarding responsible conduct of research: A cross-national comparison using a two-tier test approach. *Science and Engineering Ethics*, 27, article 20. <https://doi.org/10.1007/s11948-021-00297-7>.
- An extended work derived from SJP's doctoral dissertation.  
**IF: 3.777.** Rank: 2/62 (Q1), Top 3.23% of SCIE—History & Philosophy of Science in 2021 JCR metrics; Rank: 9/56 (Q1), Top 16.07% of SSCI—Ethics in 2021 JCR metrics.
- Pan, S. J.-A.**, & Chou, C. (2020). Taiwanese researchers' perceptions of questionable authorship practices: An exploratory study. *Science and Engineering Ethics*, 26, 1499–1530. <https://doi.org/10.1007/s11948-020-00180-x>.
- An extended work derived from SJP's doctoral dissertation.  
**IF: 3.525.** Rank: 3/63 (Q1), Top 4.76% of SCIE—History & Philosophy of Science in 2020 JCR; Rank: 9/56 (Q1), Top 16.07% of SSCI—Ethics in 2020 JCR metrics.
- Chou, C., & **Pan, S. J.-A.** (2020). Self-plagiarism in academic writing: Concepts, cases, regulations, and best practices. *Journal of Library and Information Studies*, 18(2), 43–72. [http://doi.org/10.6182/jlis.202012\\_18\(2\).043](http://doi.org/10.6182/jlis.202012_18(2).043).
- Published in Chinese with an extended abstract in English.  
**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.
- Hsueh, M. L., **Pan, S. J.-A.**, & Chou, C. (2020). A preliminary investigation of Taiwanese researchers' (mis)understandings of academic ethics: Taking the reported cases relating to plagiarism, improper citations, and self-plagiarism by the Ministry of Science and Technology as examples. *Journal of Educational Media & Library Sciences*, 57(2), 149–185. [http://doi.org/10.6120/JoEMLS.202007\\_57\(2\).0042.RS.BM](http://doi.org/10.6120/JoEMLS.202007_57(2).0042.RS.BM).

Published in Chinese with an extended abstract and supplementary slides in English.

**Rank: Tier 1 Journal of Education** in 2022 Taiwan Social Sciences Citation Index.

**Pan, S. J.-A., & Chou, C.** (2015). Using a two-tier test to examine Taiwanese graduate students' misunderstanding of responsible conduct of research. *Ethics & Behavior*, 25(6), 500–527. <http://doi.org/10.1080/10508422.2014.987921>.

**IF: 0.897**, Rank: 27/51 (Q3), Top 52.94% of SSCI—Ethics in 2015 JCR metrics.

### -- Commentary --

Hsueh, M. L., **Pan, S. J.-A.**, & Chou, C. (2019). The development of assessment criteria for research misconduct. *Taiwan Educational Review Monthly*, 8 (12), 68–75. [Published in Chinese] <http://www.ater.org.tw/journal/article/8-12/free/01.pdf>.

### -- Teaching Material --

**Pan, S. J.-A.** (2023, May 15). *Concept cartoons on research integrity: Ten illustrations* [Teaching material]. Zenodo. <https://doi.org/10.5281/zenodo.7894462>.

**Pan, S. J.-A.** (2022, October 9). *Research integrity case scenarios: Authorship (Chinese Version)*. Zenodo. <https://doi.org/10.5281/zenodo.7145980>.

### -- Book Chapters --

Chou., C. (Editor) (2020). *Research integrity and academic ethics: Compass to the responsible conduct of research*. Higher Education Publishing. <https://doi.org/10.3966/9789862662076>. [Published in Chinese]

#### **Pan, S. J.-A. - Serving as a co-author for the following eight (8) chapters:**

Chapter 1: Introduction to Research Integrity: Definitions and Concepts

Chapter 2: Professional Norms and Personal Responsibility of Research Integrity

Chapter 3: Government Regulations and Policies of Research Integrity

Chapter 4: Research Misconduct: General Definitions and Types

Chapter 5: Research Misconduct: Fabrication and Falsification

Chapter 7: Self-Plagiarism: Unauthorized Duplicated Publication

Chapter 10: Definition and Principles of Scholarly Authorship

Chapter 11: Introduction to Research Data Management

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## – Invited Talks (International)–

- Pan, S. J.-A.**\* (2022, May 29–June 1). *Teaching research integrity through what students have known: The implementation of educational diagnostic assessments* [Keynote address]. The 7<sup>th</sup> World Conference on Research Integrity (WCRI), Cape Town, South Africa. <https://doi.org/10.5281/zenodo.6582846>. \*Invited plenary presentation.
- Pan, S. J.-A.**\* (2022, March 1–3). *Supporting research integrity administrators' professional decision-making: Taiwan's experience* [Conference oral presentation]. The Inaugural Virtual International Convention for Research Administrators (VICRA 2022), Society of Research Administrators International (SRAI), Virginia, USA [Virtual conference]. \*Invited session presentation.
- Pan, S. J.-A.**\* (2021, February 25). *Preventing research misconduct through education: The 2020 plagiarism case* [Plenary presentation]. The 4<sup>th</sup> 2021 Asia Pacific Research Integrity (APRI) Network Meeting, Seoul, Korea [Virtual conference]. <https://doi.org/10.5281/zenodo.6352231>. \*Invited plenary presentation.

## – Conference Presentation (International; 2016 ~) –

- Pan, S. J.-A.** (2023, March 31). *Teaching research integrity: An educational digital storytelling approach facilitated by multimedia* [Conference oral presentation]. The 32<sup>nd</sup> Annual Association for Practical and Professional Ethics (APPE) International Conference, Portland, OR, United States [One-day Virtual Conference]. <https://doi.org/10.5281/zenodo.7754930>.
- Chou, C., & **Pan, S. J.-A.** (2023, March 20–March 22). *Design and development of a research integrity curriculum for high school students: A systematic approach* [Conference poster presentation]. The 5<sup>th</sup> 2023 Asia Pacific Research Integrity (APRI) Network Meeting, Tokyo, Japan.
- Tsai, P.-S., **Pan, S. J.-A.**, & Chou, C. (2023, March 20–March 22). *Design and development of an online curriculum of research integrity for higher education students and researchers in Taiwan: A systematic approach* [Poster presentation]. The 5<sup>th</sup> 2023 Asia Pacific Research Integrity (APRI) Network Meeting, Tokyo, Japan.
- Pan, S. J.-A.**\* (2022, May 29–June 1). *Teaching research integrity through what students have known: The implementation of educational diagnostic assessments* [Keynote address]. The 7<sup>th</sup> World Conference on Research Integrity (WCRI), Cape Town, South Africa. <https://doi.org/10.5281/zenodo.6582846>. \*Invited plenary presentation.
- Pan, S. J.-A.** (2022, May 29–June 1). *East Asian graduate students' experiences of scholarly authorship in biological and biomedical sciences research: Preliminary results* [Conference oral presentation]. The 7<sup>th</sup> World Conference on Research Integrity (WCRI), Cape Town, South Africa.
- Chou, C., & **Pan, S. J.-A.** (2022, May 29–June 1). *Research integrity education for junior researchers: The development of RCR curriculum for Taiwan high school students* [Poster presentation]. The 7<sup>th</sup> World Conference on Research Integrity (WCRI), Cape Town, South Africa.
- Chou, C., Wang, S., Kao, C.-L., & **Pan, S. J.-A.** (2022, May 29–June 1). *The use of gamification in RCR education: Design, development, and evaluation* [Conference poster presentation]. The 7<sup>th</sup> World Conference on Research Integrity (WCRI), Cape Town, South Africa.
- Pan, S. J.-A.**\* (2022, March 1–3). *Supporting research integrity administrators' professional decision-making: Taiwan's experience* [Conference oral presentation]. The Inaugural Virtual International Convention for Research Administrators (VICRA 2022), Society of Research Administrators International (SRAI), Virginia, USA [Virtual Conference]. \*Invited session presentation.
- Pan, S. J.-A.**\* (2021, February 25). *Preventing research misconduct through education: The 2020 plagiarism case* [Plenary presentation]. The 4<sup>th</sup> 2021 Asia Pacific Research Integrity (APRI) Network Meeting, Seoul, Korea [Virtual Conference]. <https://doi.org/10.5281/zenodo.6352231>. \*Invited plenary presentation.

- Pan, S. J.-A.** (2020, February 20–23). *The first decade of RCR education in Taiwan: Reflection from an early-career scholar* [Panel presentation]. The 29<sup>th</sup> Annual Association for Practical and Professional Ethics (APPE) International Conference, Atlanta, GA, United States.
- Pan, S. J.-A.**, & Chou, C. (2019, June 2–5). *Taiwanese and US graduate students' alternative concepts of responsible conduct of research: A comparison study* [Conference oral presentation]. The 6<sup>th</sup> World Conference on Research Integrity (WCRI), Hong Kong. (An extended work derived from SJP's doctoral dissertation.)
- Chou, C., **Pan, S. J.-A.**, & Kao, C.-L. (2019, June 2–5). *Perception of research integrity on Taiwan university campuses: A comparison of administrators, faculties, and students* [Conference oral presentation]. The 6<sup>th</sup> World Conference on Research Integrity (WCRI), Hong Kong.
- Pan, S. J.-A.**,\* Chou, C., & Kao, C.-L. (2017, May 28–31). *The changes to the institutional research climate before and after the implementation of a nationwide research ethics education project in Taiwan* [Conference poster presentation]. The 5<sup>th</sup> World Conference on Research Integrity (WCRI), Amsterdam, Netherlands. \*Poster Award: Third Prize.
- Chou, C., **Pan, S. J.-A.**, & Lin C.-H. (2017, May 28–31). *Can humorous visuals enhance college students' learning performance and interest in research ethics?* [Conference oral presentation]. The 5<sup>th</sup> World Conference on Research Integrity (WCRI), Amsterdam, Netherlands.
- Chou, C., **Pan, S. J.-A.**, & Kao, C.-L. (2017, February 20–22). *Evidence-based development of a research ethics course in Taiwan* [Conference oral presentation]. The 2<sup>nd</sup> 2017 Asian Pacific Rim Research Integrity (APRI) Network Meeting, Hong Kong.
- Pan, S. J.-A.**, & Chou, C. (2016, July 24–29). *Graduate students' attitudes toward academic integrity (AI): The perceptions of social needs, involvement of AI issues, and support of misconduct-prevented actions* [Conference oral presentation]. The 31<sup>st</sup> International Congress of Psychology, Yokohama, Japan. The abstract was published in the Special Issue: International Journal of Psychology, 51(S1), 571.

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#### Contact Information

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