### 國立暨南國際大學教育政策與行政學系師資個人檔案

姓名:張曉琪

職稱:助理教授

研究室:教育學院 A206 教政系系圖

校內分機:2763

e-mail: hcachang@ncnu.edu.tw

## 研究專長:

教育政策分析、課程與教學評鑑、教育資料視覺化、雙語教學

### 學歷:

加州大學戴維斯(University of California, Davis)教育學教育政策與學校組織博士 蒙大拿州立大學教育領導與諮商所 國立清華大學中國文學系

#### 經歷:

中原大學教育研究所專案助理教授 中原大學師資培育中心專案助理教授 加州大學聖克魯茲(University of California, Santa Cruz) 講師 史丹佛大學(Standford University)研究助理 加州州立聖荷西大學 San José State University 講師、課程分析 加州大學戴維斯(University of California, Davis)講師

#### 期刊文章:

Chang, A. (2025). Data-Driven Enrollment Planning: Predictive Modeling in the First-Year Writing

Program. ICIC Express Letters Part B: Applications, 16(9), 943-951.

https://doi.org/10.24507/icicelb.16.09.943 (Scopus 期刊)

Chang, A. (2025). Meet the One: Analyzing the Algorithm behind a Dating App. ICIC Express Letters Part

B: Applications, 16(10), 1071–1080. https://doi.org/10.24507/icicelb.16.10.1071

Chang, A. (2025). Data-driven undergraduate education: A case study of first-year writing program. *ICIC* 

- Liu, E.-Y., & Chang, A. (2025). Comparing teacher-student ratio and gender diversity transformation in Taiwan and Korea based on higher education expansion. *ICIC Express Letters Part B: Applications*, 16(12), https://doi.org/10.24507/icicelb.16.12.xxx (Accepted for publication for December 2025).
- Lee, K.-Y., Chang, A., & Liu, E.-Y. (2025). Exploring the patterns of degree and non-degree seeking international students with selected indices. *ICIC Express Letters Part B: Applications*, 16(1), 227-236. (Scopus 期刊)
- Chang, A., & Nkansah, J. O. (2024). Literacy for sustainable education: A premise of pedagogical inclusiveness and multilingualism in higher education. *Sustainability*, *16*(1), 1-15. **(SSCI/SCI** 期刊)
- Tseng, C., Chang, A., & Liu, E. (2024). Detecting fitted strategies for integrating AI applications into physical education using fuzzy logic. *ICIC Express Letters Part B: Applications*, 15, 1-10. (Scopus 期刊)
- Chang, D.-F., Chang, A., & Kang, C.-Y. (2024). Exploring situational factors for female international students and their satisfaction in higher education using CB-SEM. *SAGE Open, 14*(1), 1-15.

  (SSCI/SCI 期刊)
- Chang, D., & Chang, A. (2024). Analysis of the influence of fund allocation and sustainable academic efficiency based on a transformation of public goods in higher education. *Sustainability*, 2024, 1-21. (SSCI/SCI 期刊)
- Chang, D.-F., You, J.-Y., & Chang, A. (2023). College students' civic engagement efficacy and their implementing effects in selected STEM programs. *SAGE Open, 13*, 1-13. https://doi.org/10.1177/21582440231183135 (SSCI/SCI 期刊)

- Chang, A., Kang, C., & Chang, D. (2023). Detecting female international students' participation and satisfaction in higher education. *ICIC Express Letters Part B: Applications*, 14(5), 517-524. https://doi.org/10.24507/icicelb.14.05.517 (Scopus 期刊)
- Lo, Y., Chang, D., & Chang, A. (2022). Exploring concurrent relationships between economic factors and student mobility in expanding higher education achieving 2030. *Sustainability*, *14*(21), 14612.

  <a href="https://doi.org/10.3390/su142114612">https://doi.org/10.3390/su142114612</a> (SSCI/SCI 期刊)
- Chang, A., Chang, D., & Chen, T. (2022). Detecting female students transforming entrepreneurial competency, mindset, and intention into sustainable entrepreneurship. *Sustainability*, *14*(20), 12970. <a href="https://doi.org/10.3390/su142012970">https://doi.org/10.3390/su142012970</a> (SSCI/SCI 期刊)
- Chang, A., Smith, E., & Skinnell, R. (2022). Lessons learned from the pandemic: New modes of tech-supported instruction in first-year writing. *Journal of Positive School Psychology*, 6(5), 4700-4705.
- Chang, D., & Chang, A. (2022). Identifying the influential factors in recruiting international students with multivariate analysis. *ICIC Express Letters Part B: Applications*, 13(2), 161-169.

  https://doi.org/10.24507/icicelb.13.02.XXX\_(Scopus 期刊)
- Zhu, W., & Chang, A. (2021). Allocating resources equitably and efficiently in enhancing learning outcomes: A case study of early education in Zhejiang province. *Docens Series in Education*, 1, 55-72.
- Chang, A., & Baer, C. M. (2021). Academic outcomes of undergraduates learning at the age of COVID-19 pandemic. *Docens Series in Education*, *1*, 13-31.
- Chang, D., & Chang, A. (2021). Detecting the impacts of birthrate and its effect on elementary school enrollment. *ICIC Express Letters, Part B: Applications, 12*(6), 499-506.

- Chang, D. F., & Chang-Tzeng, H. (2020). Patterns of gender parity in the humanities and STEM programs:

  The trajectory under the expanded higher education system. *Studies in Higher Education*, 45(6),

  1108-1120. https://doi.org/10.1080/03075079.2018.1550479 (SSCI/SCI 期刊)
- Chang, D., Chen, C., & Chang, A. (2020). Forecasting with ARIMAX models for participating STEM programs. *ICIC Express Letters, Part B: Applications, 11*(2), 121-129.

  <a href="https://doi.org/10.24507/icicelb.11.02.121">https://doi.org/10.24507/icicelb.11.02.121</a> (Scopus 期刊)
- Chang, A., Chang, D., & Zhu, W. (2020). Reviewing implementation of global mobility policy for youth from the perspectives of stakeholders. *Educational Policy Forum*, 23(3), 1-31. https://doi.org/10.3966/156082982020082303001 (TSSCI)
- Chang, D., & Chang, A. (2020). Exploring policy intervention for demand-driven teacher preparation: A case study in changing elementary education. *Journal of Research in Education Sciences*, 65(2), 223-250. https://doi.org/10.6209/JORIES.202006\_65(2).0008 (TSSCI)
- Chang, H. (2019). 美國跨領域教學趨勢:從 STEM 到 STEAM 的轉化 Interdisciplinary teaching and learning in America: From STEM to STEAM. Journal of Educational Research, 300, 36-46. https://doi.org/10.3966/168063602019040300003.
- **Tzeng, H.,** Chang, D. and Lo, Y. (2019). Detecting concurrent relationships of selected time series data for ARIMAX model, *ICIC International*, 10 (11), https://doi.org/10.24507/icicelb.10.11.XXX (Scopus)
- **Chang, H.** STEM 遇見藝術:從 STEM 到 STEAM 的轉化 When STEM encounters Arts: from STEM to STEAM. TALENT, Ministry of Economics.工業技術研究院,人才快訓電子報
- Chang, D. F., Huang, H., & ChangTzeng, H. (2018). Estimating the gaps between potential enrollment

- numbers and kindergarten capacities by using time series models. *ICIC Express Letters, Part B:*Applications, 9(12), 1241-1248. https://doi.org/10.24507/icicelb.09.12.1241 (Scopus)
- Chang, D. F., & ChangTzeng, H. (2017). Relationships between online behaviors and entrepreneurial intentions explained by fuzzy statistics. *ICIC Express Letters, Part B: Applications, 8*(9), 1263-1269. (Scopus)
- Chang, H. (2016). Global Mobilization: A case study of generation study abroad. Journal of *Educational Research*, 271, 32-41. https://doi.org/10.3966/168063602016110271003
- Chang, D., Nyeu, F., and **Chang, H.** (2015). Balancing quality and quantity to build research universities in Taiwan. *Higher Education*, 70, 251-263. https://doi.org/10.1007/s10734-014-9841-y (SSCI)
- Chang, H. (2015). Quality of vocational education and training: Reviews of OECD's learning for jobs.

  Educational Research, 248, 133-144. https://doi.org/10.3966/168063602014120248009
- Huang, S. and **Chang, H.** (2013). EC's new developed strategy of senior learning: The effect and implication of Senior Empower project, Journal of *Educational Research*, 234, 139-153. https://doi.org/10.3966/168063602013100234010
- **Chang, H.** (2012). The impact of law on educational organizations, Journal of *Educational Research*, 221, 112-120.
- Chang, D. F., Yeh, C. and Chang, H. (2012). Improving undergraduate teaching in Taiwan: Examining perceived gaps between faculty and students, *Evaluation of Higher Education*, 5(2), 1-18. https://doi.org/10.6197/EHE.2011.0502.01
- Chang, H. (2011). Implementation of Language Policy in Taiwan: The Case Study of Recognizing Chinese Character Course, *US-China Foreign Language*, 8(7), 443-450.

- Chang, D., & Chang, H. (2011). Lessons learned from Princeton University (William G. Bowen: Lessons Learned: Reflections of a university president, Princeton University Press, Princeton and Oxford, 2011, pp. 1-168), *Higher Education*, 64(1), 139-141. https://doi.org/10.1007/s10734-011-9470-7. (SSCI)
- **Chang, H.** (2011). Arizona immigration law, creates an uncertain role for school police, *International Issues*, 446.
- Chang, D., & Chang, H. (2010). Book review: Leadership for social justice: Making revolution in education,

  Contemporary Educational Research Journal, 18(1), 147-156. (TSSCI)
- Chang, H. (2010). American educational trends: Analysis of AERA conference main themes, *Journal of Educational Research*, 200, 5-12.
- Chang, H. (2010). Engaging students through organizational engagement, In B. McKenzie., & P. Fitzsimmons. (Eds). Exploring interdisciplinary trends in creativity & engagement (pp. 99-107).

  Oxford, United Kingdom: Inter-Disciplinary Press.
- Chang, H. (2010). Understanding transfers Unique students, *International Issues*, 419.
- **Chang, H.** (2010). Educational policy decision reform: The case of the University of California, *International Issues*, 411.
- **Chang, H.** (2010). Wish me a good dream: use social justice theory to validate American dream, *International Issues*, 407.
- **Chang, H.** (2010). From dropouts to model students: The implications and application of student engagement, *International Issues*, 400.
- Chang, H. (2010). 美國公眾高等教育的低學費政策正在凋零: 搶救加州大學 American public higher

- Chang, H. (2009). Faculty employment at American research-oriented university, *International Issues*, 387. Chang, H. (2007). Quality Education of the UNESCO, *Journal of Educational Research*, 160, 164-173. 張曉琪&吳慧子。(2006)。聯合國教科文組織 60 週年慶之主題分析。教育研究月刊,151,95-105 研**計會論文**:
- Chang, A. (2026). From globalization to localization: When Argentine Tango encounters artificial intelligence and academic writing. The 39th International Congress for School Effectiveness and Improvement (ICSEI 2026), 2026/1/18 ~ 2026/1/22, Qatar
- Chang, A. (2025). Data-driven higher education learning: Using learning management system to promote student engagement. The 19th International Conference on Innovative Computing, Information and Control (ICICIC2025), 2025 /8 /26 ~ 2025 /8 /29, Japan
- Wang, X., & Chang, A. (2025). Fiscal resilience in Taiwan's higher education: Strategic insights from the SPROUT project. The 19th International Conference on Innovative Computing, Information and Control (ICICIC2025), 2025 /8 /26 ~ 2025 /8 /29, Japan
- Lo, C., & Chang, A. (2025). Can children learn via play? A case study of applying board game in teaching preschoolers' spatial concept. The 19th International Conference on Innovative Computing,

  Information and Control (ICICIC2025), 2025 /8 /26 ~ 2025 /8 /29, Japan
- 王新穎與張曉琪(2025)。台灣高教深耕計畫看高等教育財政韌性。江蘇教育經濟研究學術年會(年 會優秀論文一等獎)
- Chang, A. (2024). Data-driven enrollment planning in higher education with predictive approaches. The 18th International Conference on Innovative Computing, Information and Control (ICICIC2024),

- Chang, A. (2024). Meet the One: Analyzing the Algorithm behind the Dating App. The 18th International Conference on Innovative Computing, Information and Control (ICICIC2024), 2024 /9 /10 ~ 2024 /9 /13, China
- Chang, A., Tai, W., & Liu, E. (2024). Student Engagement and Higher Education: A Case Study of Efficient Learning Management System. The 10th HERA Conference: From Competition to Collaboration in Higher Education, 2024 /6 /5 ~ 2024 /6 /6, Taipei, Taiwan
- Chang, A; Emanuel Smith, A. (2024). Data-driven Undergraduate Education: A Case Study of First-Year

  Writing Programs. Data-Driven Intelligent Optimization for Decision Making (DIODM2024), 2024

  /3 /24 ~ 2024 /3 /28, Japan
- 戴芝娟, 張曉琪。(2023) 。以德爾菲法與設計思考建構學習分析系統之實證研究, 2023 悅趣化學習暨 諮商輔導學術研討會, 2023 /12 /16 ~ 2023 /12 /16, 台灣
- Tseng, C., Chang, A., & Liu, E. (2023). Detecting Fitted Strategies for Integrating AI Applications into Physical Education Using Fuzzy Logic, The 17th International Conference on Innovative Computing, Information and Control, 2023 /8 /29 ~ 2023 /8 /31, Japan
- Lee, K., Chang, A., & Liu, E. (2023). Exploring the Patterns of Degree and Non-Degree-Seeking

  International Students with Selected Indices, The 17th International Conference on Innovative

  Computing, Information and Control, 2023/8/29 ~ 2023/8/31, Japan
- Chang, M., Chang, D., & Chang, A. (2023). Detecting the Effects of Marital Status on Fertility Rates with Time Series Approaches, The 17th International Conference on Innovative Computing, Information and Control, 2023 /8 /29 ~ 2023 /8 /31, Japan

- Chang, D., & Chang, A. (2023). Exploring the Relationships of College Students' Entrepreneurship with

  Their Entrepreneurial Mindsets, Competencies, and Contextual Factors, HERA 2023: The 9th Higher

  Education Research Association Conference, 2023 /6 /13 ~ 2023 /6 /14, Japan
- Chang, A., & Chang, D. (2023). College Students' Civic Engagement Efficacy and Their Implementing

  Effect in STEM Programs during COVID-19 Pandemic, HERA 2023: The 9th Higher Education

  Research Association Conference, 2023 /6 /13 ~ 2023 /6 /14, Japan
- Chang, A., Kang, C. & Chang D. (2022). Detecting Female International Students' Participation and Satisfaction in Higher Education, The 16th International Conference on Innovative Computing, Information and Control Online, September 15-16, 2022 [Best Presentation Award]
- Smith, A., Chang, A., & Smith, E. (2022). Pedagogical Approaches to Supporting Multilingualism in the First- Year Writing Classroom. The 14th International Conference on Education and New Learning Technologies, July 4-6, 2022, USA.
- Chang, A., Smith, A., & Skinnell, R. (2022). Lessons Learned from the Pandemic: New Modes of Techsupported Instruction in First-year Writing. International conference on English learning and teaching skills, May 28, 2022, Japan.
- Chang, A. & Smith, A. (2022). The Empowering Course Choice: Identifying Psychological Perspectives and Linguistic Backgrounds that Lead to College Writing Courses. 2022 Hawaii International Conference on Education, January 3-6, 2022, USA
- Chang, D. & Chang A. (2021). Identifying the Influential Factors in Recruiting International Students with Multivariate Analysis. 15th International Conference on Innovative Computing, Information and Control Online, September 15-16, 2021 [Best Presentation Award]

- Zhu, W. & Chang, A. (2020). Enhancing Teaching and Learning in Early Education by Allocating Resources
   Equitably and Efficiently: A Case Study of Early Education in Zhejiang Province. 15th ICTEL 2020
   International Conference on Teaching, Education & Learning, December 14 15, Tokyo.
- Chang, A., & Baer, C. (2020). Student Learning at the Age of COVID-19 Pandemic. 15th ICTEL 2020 –

  International Conference on Teaching, Education & Learning, December 14 15, Tokyo
- Chang, D., Chen, C. and Chang, A. (2019). Forecasting with ARIMAX Models for Participating STEM

  Programs. The 14th International Conference on Innovative Computing, Information and Control

  (ICICIC 2019). Seoul, Korea. August 2019.
- Tzeng, H., Chang, D. and Lo, Y. (2019). Detecting Concurrent Relationships of Selected Time Series Data for ARIMAX Model. The 14th International Conference on Innovative Computing, Information and Control (ICICIC 2019). Seoul, Korea. August 2019.
- Chang, D.F., Huang, H., & Tzeng, H. (2018). Estimating the gaps between potential enrollment numbers and kindergarten capacities by using time series models, ICICIC2018, Lianyungang, China.
- Chang, D.F., & Tzeng, H. (2017). Relationships between online behaviors and entrepreneurial intentions explained by Fuzzy statistics, ICICIC2018 2017, Fukuoka, Japan.
- Tzeng, H. (2017). Learning math with tablet devices: An exploratory study examining the length of time in academic performance, Paper presented at the Ed Media 2017, Washington D.C., USA.
- Lin, S. P., Chang, D. F. & Chang, H. (2013). Exploring the learning success factors of resilient students: The engagement perspective, Paper presented at the 15th Annual International Conference on Education, Athens, Greece.
- Chang, H. (2012). Motivation in learning: Student engagement theory, Paper presented at Asia-pacific

- Educational Research Association-AARE 2012 Conference, University of Sydney, Australia
- Chang, H. (2011). Higher education instruction, and practice: The effects of pedagogical techniques on undergraduate learning, Paper presented at the 19th International Conference of the Chinese American Research and Development Association. New Orleans, Louisiana. [Best Presentation Award]
- Chang, H. (2011). Creative higher education: Applying student engagement theory in Taiwan, Paper presented at TERA International Conference on Education, Kaohsiung, Taiwan.
- Chang, H. (2011). Challenges and resistance in teaching and learning in Chinese schools: An application of student engagement theory, Paper presented at the 3rd Asian Conference on Education, Osaka, Japan.
- Chang, H. (2010). Implementation of language policy in Taiwan: The case study of Recognizing Chinese Character Course, Paper presented at the 6th ICTATLL International Conference: Application of Corpus and ICT for Language Studies and Teaching. Kyoto, Japan.
- Chang, H. (2009). Language policy in Taiwan: a mixture of identity and hybridity, Paper presented at 15th North America Taiwanese Studies Association Conference. Austin, Texas.
- Chang, H., & Wu, H. (2009). Quality higher education in Taiwan: The relationship between teachers' pedagogy and student engagement, Paper presented at 7th Hawaii International Conference on Education. Honolulu, Hawaii.
- Chang, H., & Chang, D. (2008). Achieving quality education-comparing educational governance in Taiwan and South Korea, Paper presented at Asia-Pacific Educational Research Association

  Conference. National Institute of Education, Singapore.
- Chang, H. (2008) . Engaging students, and teachers in creativity: Organizational engagement as a

premise, Paper presented at 4th Global Conference -Creative Engagements: Thinking with Children.

Oxford, UK.

J., Oliveira, J., Yellowman Caye, P., Zhou, J., & Chang, H. (2006). Researching the Native American Achievement Gap. Montana Conference of Educational Leadership: Billings, MT.

# 專書及專書論文:

《跳脫框架的教與學》啓發課程的想像力 Kieran 等主編, 張曉琪譯 (2014) 遠流出版

# 技術報告及其他:

科技部「培養學生美學感知與審美能力」,主持人柯惠玲教授、簡山根(20125/01至2025/07)。

English immersion in Teacher Credential Program, Introduction to Education

English immersion in Graduate School of Education: Data Visualization and Storytelling

Grade 1-6 English Curriculum

The Status and Promise of Our Emergent Multilingualism: A Longitudinal Study of Entry -Level Writing at SJSU, AY 2010 - 11 to AY 2019 - 20

張曉琪 (2009). 美國大學城導覽 The University of Montana and Missoula, In Chen, K. (Eds) College Towns in Midwest (pp. 10-18). Taichung: Morning Star. 晨星出版社