

## Steven Yueh Jen Lai (賴悅仁)

Department of Hydraulic and Ocean Engineering  
National Cheng Kung University, Taiwan

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### Degrees

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PhD, Civil Engineering, National Taiwan University, 2010

MS, Civil Engineering, National Taiwan University, 2006

BS, Hydraulic and Ocean Engineering, National Cheng Kung University, 2004

### Employment

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2018 – Associate Professor

2013 – 2018 Assistant Professor

Hydraulic and Ocean Engineering, National Cheng Kung University

2012 – 2013 Postdoctoral Fellow, Institute of Oceanography, National Taiwan University

2011 – 2012 Postdoctoral Fellow, Civil Engineering, National Taiwan University

### Awards and Honors

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“Emerging Star” Award – College of Engineering, National Cheng Kung University, 2018

Excellent Research Award – Dept. of Hydraulic and Ocean Engineering, National Cheng Kung University, 2018

Excellent Teaching Award – Dept. of Hydraulic and Ocean Engineering, National Cheng Kung University, 2015

### Student Awards (Advisor)

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序號	獲獎年/月	獎項名稱
5	106年11月	指導學生獲獎，薛力誠、蘇彥霖、白楷伊、李怡萱，2017跨領域工程專題競賽與成果展 – 觀摩組，銅牌獎
4	104年11月	指導學生獲獎，吳松晏碩士生，第22屆水利工程研討會，學生海報競賽，特優
3	104年7月	指導學生獲獎，劉芷昂、童懷億、林宗漢、楊雅君等大學生，第1屆水利工程創意競賽，銀牌獎
2	104年7月	指導學生獲獎，黃莉雅、蕭郁、康雅涵大學專題生，第1屆水利工程創意競賽，佳作
1	104年1月	指導學生獲獎，童懷意、林宗漢、劉芷昂、陳學寬、林翔遠、邱鼎鈞、楊

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## Research Interests

I am a flow and sediment experimentalist and like to use physical experiments, simplified mathematics, and field data to explore morphodynamic problems. I believe scale independent and devote myself to find natural rules that show multiscale similarities. I use digital image processing to acquire high-quality data. Currently, my research focuses are river morphodynamics, hyperpycnal deltas, submarine canyons and submarine braided channels. In a broader context, I am interested in hydraulics, geomorphology, and sedimentology.

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## Journal Publications

Google Scholar: Total citations = 105, H-index = 5, i10-index = 3.

(<http://scholar.google.com.tw/citations?user=IXvGH9QAAAAJ&hl=zh-TW>)

(\* Corresponding author)

### *In review or revision*

Lai, S. Y. J., Y. J. Chiu and F.- C. Wu\* (under review), Self-similar morphodynamics of Gilbert and hyperpycnal deltas over segmented two-slope bedrock channels, *Water Resources Research*.

### *In Print or published*

9. Limaye, A. B.\*, J. L. Grimaud, S. Y. J. Lai, B. Z. Foreman, Y. Komatsu, and Chris Paola (2018), Geometry and dynamics of braided channels and bars under experimental density currents, *Sedimentology*, doi:10.1111/sed.12453. (SCI, *IF* = 3.638, Rank: 2/47 in Geology, times cited = 0)
8. Lai, S. Y. J., Y. T. Hsiao and F.- C. Wu\* (2017), Asymmetric effects of subaerial and subaqueous basement slopes on self-similar morphology of prograding deltas, *Journal of Geophysical Research-Earth Surface*, 122, doi: 10.1002/2017JF004244. (SCI, *IF* = 3.412, Rank: 33/188 in Geosciences, Multidisciplinary, times cited = 0)
7. Lai, S. Y. J.\*, S. S. C. Hung, B. Z. Foreman, A. Limaye, J. L. Grimaud and C. Paola (2017), Stream power controls the braiding intensity of submarine channels similarly to rivers, *Geophysical Research Letters*, 44, doi:10.1002/2017GL072964. (SCI, *IF* = 4.253, Rank: 14/188 in Geosciences, Multidisciplinary, times cited = 0)
6. Lai, S. Y. J.\*, T. P. Gerber and D. Amblas (2016), An experimental approach to submarine canyon evolution, *Geophysical Research Letters*, 43(6), 2741-2747, doi: 10.1002/2015GL067376. (SCI, *IF* = 4.253, Rank: 14/188 in Geosciences, Multidisciplinary, times cited = 1)
5. 周峻暉、賴悅仁\*、林芳宇、黃進坤，2015，「不同孔隙比透水圓柱之定床流場實驗研究」，*台灣水利*，第63卷，第4期，46-56。(EI)
4. Foreman, B. Z.\*, S. Y. J. Lai, Y. Komatsu and C. Paola (2015), Braiding of submarine

- channels controlled by aspect ratio similar to rivers, *Nature Geoscience*, 8(9), 700-703, doi:10.1038/NGEO2505. (SCI, *IF* = 13.941, Rank: 1/188 in Geoscience, Multidisciplinary, times cited = 5)
3. Capart, H.\*, J. P. C. Hsu, S. Y. J. Lai and M.L. Hsieh (2010), Formation and decay of a tributary-dammed lake, Laonong River, Taiwan, *Water Resources Research*, 46, W11522, doi:10.1029/2010WR009159. (SCI, *IF* = 4.397, Rank: 4/88 in Water Resources, times cited = 2)
  2. Lai, S. Y. J., and H. Capart\* (2009), Reservoir infill by hyperpycnal deltas over bedrock, *Geophysical Research Letters*, 36, L08402, doi:10.1029/2008GL037139. (SCI, *IF* = 4.253, Rank: 14/188 in Geosciences, Multidisciplinary, times cited = 15)
  1. Lai, S. Y. J., and H. Capart\* (2007), Two-diffusion description of hyperpycnal deltas, *Journal of Geophysical Research-Earth Surface*, 112, F03005, doi:10.1029/2006JF000617. (SCI, *IF* = 3.412, Rank: 33/188 in Geosciences, Multidisciplinary, times cited = 17)

### Book Chapter

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1. Amblas, D., S. Ceramicola, T. P. Gerber, M. Canals, F. L. Chiocci, J. A. Dowdeswell, P. T. Harris, V. A. Huvenne, S. Y. J. Lai, G. Lastras, C. L. Iacono, A. Micallef, J. J. Mountjoy, C. K. Paull, P. Puig, A. Sanchez-Vidal (2018), Submarine Canyons and Gullies, in *Submarine Geomorphology*, edited by A. Micallef, S. Krastel and A. Savini, pp. 251-272, Springer, Cham.

### Conferences and Workshops

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23. Lai, S. Y. J.\*, D. Amblas and T. P. Gerber (2018), Submarine canyon-fan coevolution: Mechanism and insights from laboratory experiments, *American Geophysical Union - Fall Meeting*, Washington, D.C., USA.
22. Lai, S. Y. J. \* (2018), Experiments of submarine canyon-fan systems and braided channels, workshop on Turbidity current: Triggers, flow structures, and morphodynamics, Chiba, Japan (as an invited speaker).
21. Lai, S. Y. J. \*, D. Amblas and T. P. Gerber (2018), An experimental approach for submarine canyon-fan system, JpGU-AGU Joint Meeting, Chiba, Japan (as an invited speaker).
20. 唐高晴、賴悅仁\*，2017，「河寬及水流功率影響海底辮狀河道之實驗研究」，第 39 屆海洋工程研討會論文集。
19. Sutherland, G. M., B. Z. Foreman, S. Y. J. Lai, A. Limaye, J.-L. Grimaud, Y. Komatsu (2017), Braiding mechanisms and bar geometries in rivers and submarine density current channels, GSA Annual Meeting in Seattle, Washington, USA.
18. Lai, S. Y. J. \*, Y.-T. Hsiao, C.-C. Chang, Y. -J. Chiu and F.-C. Wu (2017), Analytical and experimental study of dual-slope effects on Gilbert and hyperpycnal deltas over bedrock, JpGU-AGU Joint Meeting, Chiba, Japan.

17. Lai, S. Y. J.\* (2017), Experiments of submarine canyons and braided turbidites, 5th Annual International Workshop of Experiments in Surface Processes and Subsurface Architecture, Tsukuba, Japan. (as an invited speaker)
16. Capart, H.\* , W. T. Ke and S. Y. J. Lai (2017) Diffusion modeling of the distribution of sediment infill in hyperpycnal mountain reservoirs, 2nd International Workshop on Sediment Bypass Tunnels, Kyoto, Japan.
15. Chou, A. C. C., S. Y. J. Lai\* and C. K. Huang (2016), Experimental study of porous cylinder affected topographic evolution, 12th International Conference on Hydroscience & Engineering (ICHE), Tainan, Taiwan.
14. Amblas, D.\*, T. P. Gerber, S. Y. J. Lai, M. Canals and J. A. Dowdeswell (2016), Towards an understanding of the long-term evolution of submarine canyons, 3<sup>rd</sup> INCISE International Submarine Canyon Symposium, Victoria, Canada.
13. Foreman, B. Z.\*, S. Y. J. Lai, Y. Komatsu and C. Paola (2015), Braided submarine channels produced with experiments suggest scale independent controls on planform morphology similar to rivers, American Geophysical Union – Fall Meeting, San Francisco, California, USA.
12. 周峻暉、賴悅仁\*、黃進坤、郭為濬，2015，「不同直徑與孔隙比之圓柱型筐網對沖積河川影響之試驗研究」，第 22 屆水利工程研討會論文集，110-114。
11. 吳松晏、賴悅仁\*，2015，「水庫三角洲受異重流及抬升水位影響之實驗研究」，第 22 屆水利工程研討會論文集，374-380。
10. Lai, S. Y. J.\*, S. S. C. Hung, B. Z. Foreman, Y. Komatsu and C. Paola (2015), Experiments of submarine braided channels driven by density currents, the 46th Binghamton Geomorphology Symposium on “Laboratory Experiments in Geomorphology”.
9. Hung, S. S. C. and S. Y. J. Lai\* (2014), Experimental investigation on submarine braided channels, *Geodynamics and Environment in East Asia International Conference & 7<sup>th</sup> Taiwan-France Earth Science Symposium*, Hualien, Taiwan.
8. Lai, S. Y. J.\* and H. Capart (2014), Evolution of river deltas and submarine canyons driven by hyperpycnal flows: a sandbox experiment, *Earth History of Asia II*, Niigata, Japan. (as a keynote speaker)
7. Lai, S. Y. J.\*, T. P. Gerber and D. Amblas (2013), An experimental study of submarine canyon evolution on continental slopes, *American Geophysical Union - Fall Meeting*, San Francisco, California, USA.
6. Lai, S. Y. J.\* (2012), Evolution of submarine canyons in sandbox experiments, in *Proceeding of the 1<sup>st</sup> USA-Spain-Taiwan Workshop on Seascape Evolution*, Department of Civil Engineering, National Taiwan University, Taipei, Taiwan.
5. Lai, S. Y. J. (2009), Morphodynamics of Mountain Reservoirs, in *Proceeding of the 1<sup>st</sup> Belgium – Taiwan Workshop on River Hydraulics*, Department of Civil Engineering, National Taiwan University, Taipei, Taiwan.

4. Lai, S. Y. J., and H. Capart\* (2008), Flow field around a vertically saltating sphere, in The American Physical Society - *the 61<sup>st</sup> Annual Meeting of the Division of Fluid Dynamics, Gallery of Fluid Motion - posters*, San Antonio, Texas.
3. Lai, S. Y. J. \*, and H. Capart (2007), Diffusive morphodynamics of hyperpycnal deltas, in *Proceedings of the 3<sup>rd</sup> Taiwan-Japan Workshop on Mechanism of Sediment-Laden Flow*, Academia Sinica, Taipei, Taiwan.
2. Lai, S. Y. J., and H. Capart\* (2007), Response of hyperpycnal deltas to a steady rise in base level, in *Proceedings of the 5th IAHR Symposium on River, Coastal and Estuarine Morphodynamics*, edited by C. Marjolein Dohmen-Janssen and Suzanne J.M.H. Hulscher, p. 57-62, Taylor and Francis, London.
1. Lai, S. Y. J., P. C. Hsu, C. Y. Hou, Willy Wang, and H. Capart\* (2005), Self-similar build-up of subaerial and subaqueous deltas over bedrock basements. *Geodynamics and Environment in East Asia International Conference & 5<sup>th</sup> Taiwan-France Earth Science Symposium*, Taitung, Taiwan, p.72-73.

### Theses

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10. 邱義叡，2018，「雙坡度岩盤影響異重流三角洲發展之研究」，碩士論文，國立成功大學，台灣。
9. 唐高晴，2018，「河寬及水流功率影響海底辮狀河道之實驗研究」，碩士論文，國立成功大學，台灣。
8. 張家齊，2017，「三角洲受交替入流密度及雙坡度岩盤影響之研究」，碩士論文，國立成功大學，台灣。
7. 蕭詠泰，2017，「雙坡度岩盤對 Gilbert 三角洲發展之研究」，碩士論文，國立成功大學，台灣。
6. 邱詩婷，2016，「以實驗方法探究一維海底峽谷演化」，碩士論文，國立成功大學，台灣。
5. 吳松晏，2016，「水庫三角洲受異重流及抬升水位影響之研究」，碩士論文，國立成功大學，台灣。
4. 江駿豐，2016，「以實驗方法探究海底峽谷發展過程與形貌分析」，碩士論文，國立成功大學，台灣。
3. 洪世哲，2015，「以實驗方法探究海下受異重流影響之辮狀河道」，碩士論文，國立成功大學，台灣。
2. Lai, S. Y. J. (2010), *Morphodynamics of coevolving fluvial and hyperpycnal valleys*, PhD dissertation, Graduate Institute of Civil Engineering, National Taiwan University, Taiwan.
1. Lai, S. Y. J. (2006), *Self-similar delta formation by hyperpycnal flows: theory and experiments*, M.S. thesis, Graduate Institute of Civil Engineering, National Taiwan University, Taiwan.

### Research Visits

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2015	College of Engineering, The Hong Kong Polytechnic University, Hong Kong
2015	Center for Engineering Education Innovation (E <sup>2</sup> I), The Hong Kong University of Science & Technology, Hong Kong.
2014	Prof. Hajime Naruse, Kyoto University, Japan
2014	Prof. Tetsuji Muto, Nagasaki University, Japan
2013	Dr. Thomas Gerber, Statoil, Research Center Austin, Austin, Texas, J. J. Pickle Research Campus, University of Texas at Austin, USA
2013	Dept. of Civil and Environmental Engineering, University of Washington, Seattle, USA
2013	Dept. of Civil and Environmental Engineering, UC Berkeley, San Francisco, USA
2012	Thomas Gerber, Geoscience, Indiana University of Pennsylvania, USA, Visit at National Taiwan University, Taiwan
2012	David Amblas, Stratigraphy Paleontology and Marine Geosciences, University of Barcelona, Visit at National Taiwan University, Taiwan
2008	Chris Paola, Vaughan Voller and John Swenson, University of Minnesota, St. Anthony Falls Laboratory (SAFL)
2007	Jeff Peakall, Earth and Environment, University of Leeds, The Sorby Environmental Fluid Dynamics Laboratory (SEFDL)

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**NCKU Service**

項目	起迄年月	工作性質	備註
水利及海洋工程學系大學部導師	2013/02 ~ 迄今	提供學生課業及生活諮詢與建議。	
水利及海洋工程學系博士班資格考命題委員	105 學年度第 1 學期	河道水力學命題委員	
	104 學年度第 1 學期		
	103 學年度第 2 學期		
	102 學年度第 1 學期		
	101 學年度第 2 學期		
水利及海洋工程學系大學個人申請入學審查委員	102 學年度	大學個人申請入學審查委員	
	105 學年度		
水利及海洋工程學系碩班甄試入學審查委員	103 學年度	口試委員	
	105 學年度	審查委員	
	108 學年度	審查委員	

水利及海洋工程學系 碩專班入學考試 審查委員	104 學年度	審查委員	
水利及海洋工程學系 博士班入學考試 審查委員	105 學年度	審查委員	
水利及海洋工程學系 博班甄試入學 審查委員	104 學年度	審查委員	
水利及海洋工程學系 僑生及港澳生申請入學 審查委員	104 學年度	審查委員	
水利及海洋工程學系 一貫修讀碩士學位 (預研究生) 審查委員	105 學年度	審查委員	
水利及海洋工程學系 轉系審查委員	103 學年度	審查委員	
	105 學年度	審查委員	
水利及海洋工程學系 課程委員小組 小組成員	2018/08 ~ 迄今	(1) 審議本系所之畢業學分及課程規劃。 (2) 規範本系承認之通識教育課程。 (3) 未來延聘師資之授課專長規劃。 (4) 其它與課程相關事務之協調及規劃。	
水利及海洋工程學系 演講小組 召集人	2016/08 ~ 迄今	(1) 專題演講人員之規劃與邀請。 (2) 學生參與演講活動之考核。 (3) 其它與演講活動相關之事務。	
水利及海洋工程學系 圖儀小組 小組成員	2016/08 ~ 迄今	(1) 圖書經費之申請與審核。 (2) 教學及研究設備經費之申請與審核。 (3) 其它與系所設備及圖	

		書相關之事務。	
水利及海洋工程學系 計網小組 小組成員	2016/08 ~ 迄今	(1) 教學電腦設備之規劃與提。 (2) 系網頁管理與維護。 (3) 其它與系網路效率及安全相關之事務。	
水利及海洋工程學系 空間及發展小組 小組成員	2018/02 ~ 迄今	(1)系所空間環境規劃及改善計畫。	
水利及海洋工程學系 出版小組 召集人	2013/02 ~ 2016/07	(1) 系網頁設計。 (2) 系刊及院刊指導。 (3) 系上年報及文宣之編修與出版。 (4) 系出版相關事務。	
海工教學大樓新建工程 公共藝術執行小組 小組成員	2015/02 ~ 2016/07	代表水利系與藝術家、建築師及視覺藝術類專家學者，討論公共藝術設置相關事宜。	
Japan Geoscience Union (JpGU) Meeting	2017	Session convener (with Prof. Hajime Naruse and Prof. Tetsuji Muto)	
協助籌辦第 12 屆國際 水科技與水利工程研討 會(ICHE 2016)	2014/10 ~2016/11	秘書組成員之一，協助執行研討會相關事宜	
協助籌辦第 22 屆水利 工程研討會	2014/10 ~ 2015/11	秘書組成員之一，協助執行研討會相關事宜	
AGU member	2013/02 ~ 迄今	美國地球物理協會成員	
International Association of Sedimentologists (IAS) member	2018/10 ~ 迄今	國際沉積學家協會成員	
國外 SCI 期刊論文 及國內期刊論文 評審委員	2013/02 ~ 迄今	Nature Communications	SCI, IF = 12.353
		Journal of Geophysical Research-Earth Surface	SCI, IF = 3.412
		Earth Surface Processes and Landforms	SCI, IF = 3.697
		Geology	SCI, IF =



			4.635
		Marine Geology	SCI, IF = 3.572
		Journal of Engineering Mechanics	SCI, IF = 1.764
		Visualization in Engineering	SCI, IF = 0.68
		台灣水利	EI
		中華水土保持學報	
應邀專題演講	2017	National Taiwan University, Dept. of Civil Engineering	
		National Taiwan University, Dept. of Engineering Science and Ocean Engineering	
		National Taiwan University, Dept. of Bioenvironmental Systems Engineering	
		National Central University, Institute of Hydrological and Oceanic Sciences	
應邀專題演講	2016	National Chung Hsing University, Taiwan, Dept. of Soil and Water Conservation	
		National Kaohsiung Marine University – Qijin, Taiwan, Dept. of Maritime Information and Technology	
		Exploration & Development Research Institute, CPC	
		National Taiwan University, Institute of Oceanography	
應邀專題演講	2015	National Cheng Kung University, Center for	

		Creativity in Engineering Education	
應邀專題演講	2014	National Chiao Tung University, Dept. of Civil Engineering	
		Niigata University, Japan, Symposium on Earth History of Asia II (as a keynote speaker)	
		National Kaohsiung Marine University – Nanzi, Taiwan , Dept. of Naval Architecture and Ocean Engineering	
		Kyoto University, Division of Earth and Planetary Sciences	
應邀專題演講	2013	Southern Region Water Resources Office, WRA, MOEA, Agongdian Reservoir	
		National Central University, Graduate Institute of Hydrological & Oceanic Sciences	
		National Cheng Kung University, NCKUion	
		National Cheng Kung University, Dept. of Hydraulic and Ocean Engineering	

### Teaching

Experimental Hydraulics, N881300	Spring 2016, Spring 2018
Fluid Mechanics Laboratory, E830601	Fall 2015, Fall 2016, Fall 2017
Assignment on Experimental Hydraulics, N851600	Fall 2013, Fall 2014
River Hydraulics, N861000	Spring, 2015, Spring 2017

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Environmental Hydraulics, N871500	Spring 2013, Spring 2014
Engineering Graphics, E811500	Fall 2013, Fall 2014, Fall 2015, Fall 2016 Fall 2017
Hydraulic Engineering Drawing, E823300	Spring 2013, Spring 2014, Spring 2015
Creativity in Civil Engineering, E020100	Spring 2014
Seminar (4), N880140	Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018
Seminar (2), N880120	Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018
Special Topics (1), E831910	Spring 2015, Spring 2016
Special Topics (2), E831910	Fall 2015

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### Student Supervised

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<i>Graduate Students</i>	Master	Shih-Che Hong (洪世哲)	2013 – 2015
	Master	Szu-Ting Chiu (邱詩婷)	2014 – 2016
	Master	Jyun-Fong Jiang (江駿豐)	2014 – 2016
	Master	Song-Yen Wu (吳松晏)	2014 – 2016
	PhD	Chun-Wei Chou (周峻暉)	2014 – present
	Master	Chia-Chi Chang (張家齊)	2015 – 2017
	Master	Yung-Tai Hsiao (蕭詠泰)	2015 – 2017
	Master	Kao-Ching Tang (唐高晴)	2016 – 2018
	Master	Yi-Juei Chiu (邱義叡)	2016 – 2018
	Master	Tang-Yu Chang (張崇羽)	2017 – present
	Master	Sam Yan Jyun Huang (黃彥鈞)	2018 – present
	Master	Hsuan-Ning Shih (石軒寧)	2018 – present
	Master	Tai-Lin Ou (歐岱霖)	2018 – present
	<i>Undergraduate Students</i>		黃莉雅
		蕭郁	2015 – 2016
		康雅涵	2015 – 2016
		林宗漢	2015 – 2016
		黃啟豪	2016 – 2017
		張崇羽	2016 – 2017
		陳奕凱	2016 – 2017
		薛力誠	2017 – 2018
		李怡萱	2017 – 2018
		蘇彥霖	2017 – 2018
		白楷伊	2017 – 2018
		林世展	2017 – 2018
	秦瑋聰	2017 – 2018	

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王思云

2017 – 2018

辛翔

2018 – present

**Projects Supervised and Participated**

計畫名稱	擔任工作	起迄年月	補助或委託機構	執行情形	經費總額(萬元)
[1] 河道及河口受大量土砂影響之長期河相演化與災害分析(II) (MOST 107-2625-M-006-001 -)	計畫主持人	2018/8~ 2019/7	科技部	執行中	117.5
[2] 暴雨引發之災後地形演化型態與演變機制(II)(子計畫四: 颱洪事件影響不同時空尺度溪谷與沖積扇共同演化之災害研究) (107-2119-M-239 -001 -)	共同計畫主持人	2018/1~ 2018/12	科技部	執行中	65
[3] 河道及河口受大量土砂影響之長期河相演化與災害分析 (MOST 106-2625-M-006-010 -)	計畫主持人	2017/8~ 2018/7	科技部	執行中	84.4
[4] 暴雨引發之災後地形演化型態與演變機制(子計畫四: 颱洪事件影響不同時空尺度瓣狀河道及河口三角洲之地形演化) (106-2119-M-239 -001 -)	共同計畫主持人	2017/1~ 2017/12	科技部	已結案	85

[5] 智慧聯網融入跨領域人才培育(「跨領域工程教育人才培育與研究」計畫)- 子計畫五: 以跨領域與實作培育整合思維之水環境人才 (105-2511-S-006-023-MY3)	共同計畫主持人	2016/12~ 2019/11	科技部	執行中	83.9
[6] 氣候變遷下高濃度異重流對水庫三角洲淤積之研究與災害分析 (MOST 105-2625-M-006-008 -)	計畫主持人	2016/8~ 2017/7	科技部	已結案	88.3
[7] 雷射掃描與多視角攝影三維成像技術於實驗河相學之應用 (MOST 103-2221-E-006-215-)	計畫主持人	2014/8~ 2015/9	科技部	已結案	81
[8] 陸上及海下受異重流影響之地貌變化 (NSC 102-2218-E-006-010-)	計畫主持人	2013/8~ 2014/7	科技部	已結案	64.5