# CURRICULUM VITAE

## Joseph Chuang-Chieh Lin (林莊傑)

Postoctoral Research Fellow

## Contact Information

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## Research Interests

- Game Theory.
- Randomized Algorithms.
- Fixed-Parameter & Exact Algorithms.
- Property Testing.
- Graph Theory & Algorithms.
- Bioinformatics.

## Education

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| 09/2004–07/2011 | **Ph.D. degree** in *Computer Science and Information Engineering*, National Chung Cheng University, Chia-Yi, Taiwan. Supervisors: Maw-Shang Chang & Peter Rossmanith |
| 09/2002–06/2004 | **M.S. degree** in *Computer Science and Information Engineering*, National Chi Nan University, Nantou, Taiwan. Supervisor: Richard Chia-Tung Lee (R. C. T. Lee) |
| 09/1998–06/2002 | **B.S. degree** in *Mathematics*, National Cheng Kung University, Tainan, Taiwan. |

## Work Experience

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| 09/2014–02/2018 | **Position:** Postdoctoral Research Fellow. Institute of Information Science, Academia Sinica, Taiwan. |
| 09/2011–08/2014 | **Position:** Postdoctoral Research Fellow. *Research & Development Alternative Military Service* (研發替代役). Genomics Research Center, Academia Sinica, Taiwan. |

## Professional Services

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| 06/2017 | **International Conference Reviewer** for *International Symposium on Fundamentals of Computation Theory* (FCT 2017). |
| 09/2016 | **International Conference Reviewer** for *International Computer Symposium* (ICS 2016). |
| 08/2013 | **Journal Reviewer** for *Information and Computation.* |
| 03/2012 | **International Conference Reviewer** for the *18th Annual International Computing and Combinatorics Conference* (COCOON 2012). |
| 08/2011 | **Journal Reviewer** for *Information Processing Letters.* |

## Scholarship, International Cooperations & Awards

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| 09/2009–08/2010 | **Personnel Exchange Programme for Joint Project Between the NSC and DFG** (Taiwan: NSC 98–2911–I–194–003; Germany: RO 927/10–1 / 568846). |
| 04/2009 | **Best Paper Award**; The 26th Workshop on Combinatorial Mathematics and Computation Theory. Chiayi, Taiwan, 24–25 April, 2009. |
| 09/2007–08/2008 | **DAAD-NSC Sandwich Program**: Scholarship Holder. Institute to Visit: RWTH Aachen University, Germany. |

## Teaching Experience (lecturer for undergraduate students)

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| 09/2010–06/2011 | **Affiliation:** Center for General Education, National Chung Cheng University, Taiwan. <br> **Course:** Introduction to Information Security <br> **Level:** Undergraduate students |
| 02/2007–06/2007 | **Affiliation:** Department of Management Information System, National Chung Cheng University, Taiwan. <br> **Course:** Discrete Mathematics <br> **Level:** Undergraduate students |
| 09/2006–01/2007 | **Affiliation:** Department of Finance, National Chung Cheng University, Taiwan. <br> **Course:** Introduction to Computers <br> **Level:** Undergraduate students |

## Programming Languages & Skills

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| **Platforms:** | Windows, Unix/Linux |
| **Languages:** | GNU ANSI C, AWK, Linux shell script, HTML/CSS, Javascript |
| **Developed Tools:** | ExonFinder: Identifying novel exons with cross-species ESTs support & canonical/noncanonical splicing sites motifs. |
| | EvoExonFinder: Improved ExonFinder; adding evolutionary rate ($dn$, $ds$, and $dn/ds$) analysis & statistical tests. |

## Publication List

**Note:** '*': the corresponding author.

- Journal Papers:

1. Trees-Juen Chuang*, Min-Yu Yang, <u>Chuang-Chieh Lin</u>, Ping-Hung Hsieh, and Li-Yuan Hung: Comparative genomics of grass EST libraries reveals previously uncharacterized splicing events in crop plants. *BMC Plant Biology* **15**:39 (2015). (Authors' order is non-alphabetical)

2. Maw-Shang Chang, <u>Chuang-Chieh Lin</u>*, and Peter Rossmanith: Testing consistency of quartet topologies: a parameterized approach. *Information Processing Letters* 113 (2013) 852–857.

3. Maw-Shang Chang, <u>Chuang-Chieh Lin</u>*, and Peter Rossmanith: A property tester for tree-likeness of quartet topologies. *Theory of Computing Systems* 49 (2011) 576–587.

4. Maw-Shang Chang, Hsiao-Han Chung, and <u>Chuang-Chieh Lin</u>*: An improved algorithm for the red-blue hitting set problem with the consecutive ones property. *Information Processing Letters* 110 (2010) 845–848.

5. Maw-Shang Chang, <u>Chuang-Chieh Lin</u>*, and Peter Rossmanith: New fixed-parameter algorithms for the minimum quartet inconsistency problem. *Theory of Computing Systems* 47 (2010) 342–367.

- Refereed Conference Papers:

1. <u>Chuang-Chieh Lin</u> and Chi-Jen Lu: Efficient mechanisms for peer grading and dueling bandits. *Proceedings of the 10th Asian Conference on Machine Learning* (ACML 2018, Beijing, China; 14–16 November). To appear in Proceedings of Machine Learning Research (JMLR 95, 2018).

2. Maw-Shang Chang, <u>Chuang-Chieh Lin</u>*, and Peter Rossmanith: Testing consistency of quartet topologies: a parameterized approach. *Accepted in the International Conference on Computing and Security* (ICCS 2012, Ulaanbaatar, Mongolia, 9–12, July).

3. <u>Chuang-Chieh Lin</u>*: Testing tree-consistency with $k$ missing quartets. Accepted for publication in *Proceedings of the 28th Workshop on Combinatorial Mathematics and Computation Theory* (Penghu, Taiwan, 27–28 May, 2011), pp. 280–285.

4. Maw-Shang Chang, Hsiao-Han Chung, and <u>Chuang-Chieh Lin</u>*: An improved algorithm for the red-blue hitting set problem with the consecutive ones property. *Proceedings of the 26th Workshop on Combinatorial Mathematics and Computation Theory*, (Chiayi, Taiwan, 24–25 April, 2009), pp. 15–20. Best Paper Award.

5. Maw-Shang Chang, <u>Chuang-Chieh Lin</u>*, and Peter Rossmanith: New fixed-parameter algorithms for the minimum quartet inconsistency problem. *Proceedings of International Workshop on Exact and Parameterized Computation* (IWPEC 2008, Victoria B.C., Canada; 14–16 May), Lecture Notes in Computer Science, Vol. 5018, Springer-Verlag, pp. 66–77.

- Ph.D. Dissertation:

  - *A Study on Fixed-Parameter Algorithms and Property Testing.* July 2011.

# Other Interests

- Running (track events & road running, e.g., marathons), hiking, basketball, table tennis, book reading, traveling, etc.

- ⋆ Personal Records:

    - √ Marathon: 2:53:59 (2014 Taipei Expressway Marathon).
    - √ Half Marathon: 1:21:02 (2015 Taipei Standard Chartered Marathon).
    - √ 10000m: 36:10 (April 2010).
    - √ 5000m: 16:56 (April 2010).
    - √ 1500m: 4:23.9 (May 2010).
    - √ 800m: 2:05.07 (2001 National Intercollegiate Athletic Games).