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| CONTACT INFORMATION | Dept. of Computer Science & Engineering Washington University in St. Louis Campus Box 1045, Jolley Hall 532 One Brookings Drive St. Louis, MO 63130 | <i>Phone:</i> (310) 889-4235 <i>E-mail:</i> chienju.ho@wustl.edu http://chienjuho.com |
| RESEARCH INTERESTS | Machine learning, algorithmic economics, optimization, online social behavioral science, on-line algorithm, crowdsourcing, social computing, and artificial intelligence The goal of my research is to combine computer power and human effort to solve problems that cannot be solved by computers or humans alone. To achieve this goal, I study the design and analysis of systems with humans in the loop. I develop models and algorithms to acquire and utilize human-generated data for machine learning problems. | |
| EMPLOYMENT | Washington University in St. Louis , St. Louis, MO Assistant Professor, Computer Science & Engineering, August 2017 to Present Cornell University , Ithaca, NY Postdoctoral Associate, October 2015 to July 2017 <ul style="list-style-type: none">• Host: Arpita Ghosh | |
| EDUCATION | University of California, Los Angeles , Los Angeles, CA Ph.D., Computer Science, September 2010 to October 2015 <ul style="list-style-type: none">• Dissertation: Design and Analysis of Crowdsourcing Mechanisms• Advisor: Jennifer Wortman Vaughan Harvard University , Cambridge, MA Visiting Ph.D. Student, Computer Science, October 2012 to September 2015 <ul style="list-style-type: none">• Mentor: Yiling Chen National Taiwan University , Taipei, Taiwan M.S., Computer Science and Information Engineering, June 2007 <ul style="list-style-type: none">• Advisor: Jane Yung-jen Hsu B.S., Computer Science and Information Engineering, June 2005 B.S., Physics, June 2005 | |
| AWARDS | Best Paper Award Nominee , 24th International World Wide Web Conference, 2015 Google Outstanding Graduate Research Award , Computer Science, UCLA, 2015 Dissertation Year Fellowship , UCLA, 2014-2015 | |
| PUBLICATIONS | Eliciting Categorical Data for Optimal Aggregation. Chien-Ju Ho, Rafael Frongillo, and Yiling Chen. To appear in the 30th Annual Conference on Neural Information Processing Systems (NIPS'16) Adaptive Contract Design for Crowdsourcing Markets: Bandit Algorithms for Repeated Principal-Agent Problems. Chien-Ju Ho, Aleksandrs Slivkins, and Jennifer Wortman Vaughan. Journal of Artificial Intelligence Research, Volume 55, pages 317-359, 2016. (Supersedes the EC'14 paper) Low-Cost Learning via Active Data Procurement. Jacob Abernethy, Yiling Chen, Chien-Ju Ho, and Bo Waggoner. In the 16th ACM Conference on Economics and Computation (EC'15). | |

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| TEACHING EXPERIENCE | <p>Full-time Teaching Assistant, National Taiwan University 2009 to 2010</p> <ul style="list-style-type: none"> • Administrator of the Logic Laboratory. • Instructor of the course “Digital Circuit Laboratory”. • Instructor of the course “Digital System Laboratory”. • Teaching assistant of “Artificial Intelligence” and “Digital System Design”. |
| RELEVANT COURSEWORK | <p>Machine Learning Theory, Linear Programming, Convex Optimization, Information Economics, Online Algorithms, Algorithmic Game Theory, Bayesian Network, Mathematical Frameworks for Social Computing, Topics in Mathematical Economics.</p> |
| SERVICE | <p>Journal Referee: ACM Transactions on Intelligent Systems and Technology ACM Transactions on Economics and Computation Artificial Intelligence Journal Annals of Mathematics and Artificial Intelligence IEEE Transactions on Computational Intelligence and AI in Games IEEE Transactions on Computational Social Systems IEEE Transactions on Parallel and Distributed Systems Journal of Artificial Intelligence Research Journal of the Association for Information Science and Technology World Wide Web Journal</p> <p>Program Committee or Formal Reviewer: International World Wide Web Conference (WWW): 2017, 2018 AAAI Conference on Human Computation and Crowdsourcing (HCOMP): 2016 ACM Conference on Economics and Computation (EC): 2015, 2016, 2017 International Joint Conference on Artificial Intelligence (IJCAI): 2015, 2016 Conference on Neural Information Processing Systems (NIPS): 2013, 2014, 2015, 2016, 2017 AAAI Conference on Artificial Intelligence (AAAI): 2013 Workshop on Crowdsourcing and Human Computation for Recommender Systems: 2013</p> <p>Auxiliary Reviewer: HCOMP 2012, HCOMP 2013 WiP, WINE 2013, AAAI 2014, WINE 2016</p> <p>Workshop Organizer: HCOMP Workshop on Mathematical Foundations of Human Computation, 2016 NIPS Workshop on Crowdsourcing and Machine Learning, 2014</p> <p>Organizer of UCLA Social Computing Reading Group, Sep. 2011 to Mar. 2012</p> |
| REFERENCES | <p>Jennifer Wortman Vaughan</p> <ul style="list-style-type: none"> • Senior Researcher, Microsoft Research, New York City • jenn@microsoft.com <p>Yiling Chen</p> <ul style="list-style-type: none"> • Gordon McKay Professor of Computer Science, Harvard University • yiling@seas.harvard.edu <p>Aleksandrs Slivkins</p> <ul style="list-style-type: none"> • Senior Researcher, Microsoft Research, New York City • slivkins@microsoft.com <p>Siddharth Suri</p> <ul style="list-style-type: none"> • Senior Researcher, Microsoft Research, New York City • suri@microsoft.com |