Changyou Chen

7 London Circuit, Civic, Australian Capital Territory, Canberra, Australia

Tel: +(61) 2-62-676-276
E-mail: Changyou.Chen@nicta.com.au

Homepage: http://users.cecs.anu.edu.au/ Chen.Changyou/index.html

Education

2010–now **PhD candidate in College of Engineering and Computer Science**, *the Australian University, Canberra, Australia. Sep 2010–February 2014 (expected)*.

2007–2010 **MS in School of Computer Science**, *Fudan University, Shanghai, China. Sep 2007–Jun 2010*.

2003–2007 **BS in School of Computer Science**, *Fudan University, Shanghai, China. Sep 2007-Jun 2010*.

Research Interests

- Bayesian Nonparametrics

Dependent Normalized Random Measures; Dependent Poisson-Kingman Processes; Some topics on Diffusion Processes; MCMC for Hierarchical Poisson-Dirichlet Processes, etc.

- Text Mining & Topic Models

- Manifold Learning, Metric Learning, Biometrics Identification, etc.

Research and Project Experience

2010-now **ANU & NICTA**.

- Working on non-parametric Bayesian methods and topic models, supervised by Wray Buntine and collaborate with many others.

- Work on *Dependent Normalized Random Measures* (ICML'13), *Dynamic Topic Models* (ICML'12), *Differential Topic Models* (submitted), *MCMC for Hierarchical Poisson-Dirichlet Processes* (ECML'11).

2009 **Microsoft Research Asia (MSRA)**, Mar 2009–Apr 2009.

- Intern. Worked at the Media Communication Group (mCom).

2007-2010 **Shanghai Key Lab of Intelligent Information Processing (IIPL)**, Sep 2007–Jun 2010.

- Worked on *Manifold Learning* and *Gait Recognition*.

Selective Publications

[1] **Changyou Chen**, Vinayak Rao, YeeWhye Teh, Wray Buntine.
Dependent Normalized Random Measures.
International Conference on Machine Learning (accepted), 2013.

[2] **Changyou Chen**, Nan Ding, Lan Du, Wray Buntine.
Differential Topic Models.
submitted, 2012.

[3] **Changyou Chen**, Nan Ding, Wray Buntine.
Dependent Hierarchical Normalized Random Measures for Dynamic Topic Modeling.
International Conference on Machine Learning, 2012.

[4] **Changyou Chen**, Wray Buntine, Nan Ding.
Theory of Dependent Hierarchical Normalized Random Measures.
Technical Report arXiv:1205.4159, NICTA and ANU, 2012.

[5] Lan Du, Wray Buntine, Huidong Jin, **Changyou Chen**.
Sequential Latent Dirichlet Allocation.
Knowledge and Inforamtion Systems, vol. 31, no. 3, pp. 475–503, 2012.

[6] **Changyou Chen**, Lan Du, Wray Buntine.
Sampling Table Configurations for the Hierarchical Poisson-Dirichlet Process.
The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), 2011.

[7] **Changyou Chen**, Junping Zhang, Xuefang He, Zhi-hua Zhou.
Efficient Non-Parametric Kernel Learning with Arbitrary Number of Pairwise Constraints.
International Journal of Machine Learning and Cybernetics, 2011.

[8] Junping Zhang, Jian Pu, **Changyou Chen**, Rudolf Fleischer.
Low Resolution Gait Recognition.
IEEE Transaction on System, Man, Cybernetic, Part B, 2009.

[9] **Changyou Chen**, Junping Zhang, Rudolf Fleischer.
Distance Approximating Dimension Reduction of Riemannian Manifolds.
IEEE Transaction on System, Man, Cybernetic, Part B, 2009.

[10] **Changyou Chen**, Junping Zhang, Rudolf Fleischer.
Multilinear Tensor-based Nonparametric Dimension Reduction.
The 3rd IAPR/IEEE International Conference on Biometrics (ICB 2009).

[11] Junping Zhang, Yuan Cheng, **Changyou Chen**.
Low Resolution Gait Recognition with High Frequency Super Resolution.
The Tenth Pacific Rim International Conference on Artificial Intelligence (PRICAI 08).

[12] **Changyou Chen**, Junping Zhang.
An Iterative Gait Prototype Learning Algorithm based on Tangent Distance(in Chinese).
Journal of Computer Research and Development, 2008.

Awards

2012	**ICML student travel scholarship award**.
2009	**IBM Outstanding Students Scholarship (1 out of 2 students)**.
2008	**Morgan Stanley Scholarship (among about 5 students)**.
2007-2010	**First class prize of Academic Scholarship at Fudan University (rank 2 and 3 out of more than 100 students)**, *3 times.*
2003-2007	**Third class prize of Renmin Scholarship at Fudan University**, *3 times.*

2008   **'Outstanding Student Paper' award at Agen'08.**

Academic Activities

2012.11   **Volunteer of Asian Conference on Machine Learning (ACML) in Singapore.**

2012.6   **Visited YeeWhye Teh at University College London.**

2012.6   **Visited Zoubin Ghahramani at Cambridge University.**

2012.6   **Attended International Conference on Machine Learning (ICML) in Edinburgh UK.**

2011.12   **Attended Neural Information Processing System conference (NIPS) in Granada Spain.**

2011.9   **Attended European Conference on Machine Learning (ECML-PKDD) in Athens Greece.**

2011.6   **Attended Machine Learning Summer School in Singapore.**

2010.9   **Attended Machine Learning Summer School in Canberra Australia.**

Conference Reviewer   **IJCAI'13, ICML'12, IJCAI'11, KDD'11.**

Journal Reviewer   **ELSEVIER Signal Processing**

ACM Transactions on Intelligent Systems and Technology (TIST)

Transactions on Intelligent Transportation Systems (TITS)

IEEE Intelligent Systems (IS)

.

Teaching Experiences

2013   **Tutor for undergraduate course "Advance Databases and Data Mining" at ANU.**

2012   **Tutor for undergraduate course "Advance Databases and Data Mining" at ANU.**

2008   **Teaching assistant for undergraduate course "College Physics" at Fudan University.**