

ALVIN CHIN

Curriculum Vitae

Work Address

BMW Technology Corporation
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CAREER OBJECTIVE

To be a leading expert as a Principal Researcher, Research Manager or Research Director in Analytics, Data Science and Machine Learning in transforming applied research into technology, business, policy and societal solutions for the university or company and its clients.

RESEARCH INTERESTS

Vehicle automation and networking, machine and deep learning, data science and analytics, big data, data mining, mobile social networking, ubiquitous computing, social computing, recommendations, computer-supported collaborative work, human-computer interaction, mobile computing, and context awareness

SKILLS

- Operating Systems: Windows 10, Unix, Linux, Ubuntu, Raspbian, MacOSX, iOS, Android
- Programming and Scripting Languages: C, C++, C#, Java, JavaScript, Python, Powershell, Scala
- Development Tools: Microsoft Visual Studio, Microsoft Visual Code, Apple XCode, Anaconda, Jupyter Notebooks, Azure Notebooks, Databricks Notebooks, RStudio, PyCharm
- Web: HTML, DHTML, XML, XHTML, DOM, Web Services, UDDI, WSDL, SOAP, RDF, PHP
- Application Servers: Apache HTTP Server, Apache Tomcat, JBoss
- Big Data, Cloud and Databases: Hadoop, Amazon AWS, IBM DB2, Microsoft Access, Microsoft SQL Server, MySQL, Microsoft Azure, Azure Databricks
- Data Science, Mathematics and Statistical Tools and Languages: Matlab, SPSS, RStudio
- Machine Learning: Keras, scikit-learn, Tensorflow, Azure Machine Learning Studio, Azure Machine Learning Service, Neural Networks (CNN, LSTM)
- Analytics and Visualization: Microsoft Power BI, ESRI ArcGIS
- Networking and Wireless Computing: TCP/IP, MobileIP, RPC, Bluetooth, Wireless LAN, 4G, 5G
- Sensors and IoT: Microsoft Azure IoT Edge, Raspberry Pi

EDUCATION

PhD in Computer Science

Sep 2003 – Dec 2008

University of Toronto, Toronto, Canada

Thesis: Social Cohesion Analysis of Networks - A Novel Method for Identifying Subgroups in Social Hypertext

Advisor: Mark Chignell

MASc in Electrical and Computer Engineering

Jan 2002 – Jan 2004

University of Waterloo, Waterloo, Canada

Thesis: Service Invocation and Roaming for Pervasive Computing Environments

Advisor: Kostas Kontogiannis

BASc in Computer Engineering

Sep 1994 – Jun 1999

University of Waterloo, Waterloo, Canada

Graduated with First Class Honours

WORK EXPERIENCE**Adjunct Professor, Dept. of Computing & Digital Media**

Jan 2019-Present

DePaul University, Chicago, IL, USA

- Taught undergraduate students on IT 223 Data Analysis using SPSS (June-July 2020, Sept-Nov 2020)
- Taught undergraduate and graduate students and employees on DSC 323/423 Data Analysis and Regression using RStudio and R (Jan-Mar 2019, Sept-Nov 2019)

Senior Researcher, Machine Learning

Apr 2015 - Present

*BMW Technology Corporation**BMW of North America**BMW Group, Chicago, IL, USA*

Manager: Jilei Tian

- Big data mining and analysis of BMW car data using machine learning algorithms for learning and predicting destinations, smart pre-conditioning of vehicle, contributing to release of BMW Connected product since March 31, 2016
- Conducted research and evaluation on AIOps tools of ElasticSearch and Dynatrace
- Performance analysis of machine learning algorithms incorporated in BMW Connected
- Created analytics for measuring the usage of machine learning features and user engagement using SQL and Microsoft Azure automation and visualizing in Microsoft Power BI dashboard
- Mentored 6 interns with machine learning projects dealing with adaptive location data collection based on driving behavior, improving POI accuracy, identifying mobility patterns by using activity data, crowdsourcing parking locations, deep learning for automotive diagnostics, and energy consumption for gas range prediction in automotive
- Context data collection and intelligence from phone and car data to improve driver experience [M.2], eco-route recommendations [PD.6], abnormal driving trajectory detection [C.21]
- Personalized individual modeling of preferences for seat heating in vehicle [C.22] and predictive preconditioning [C.25]
- IoT edge framework for data-driven automotive diagnostics [C.23, C.24]
- Collaborated with universities for graduate course mentorship: Northwestern University (Data Analytics Course Final Project – April to June 2016), University of Illinois at Chicago (Interdisciplinary Product Development Course – Sept 2017 to April 2018), Georgia Institute of Technology (Industrial Design Project Course – Jan to May 2017)
- Created innovation for data collection, improved journey management and recommendation resulting in 9 accepted and 5 published and 4 granted patents [Pat.10-17]

Senior Researcher

Sept 2012 – Sept 2014

*Xpress Internet Services China Team**Mobile Phones Service Enablers & Applications, Microsoft Devices Group**Nokia (Sept 2012 to Mar 2014) and Microsoft (April to Sept 2014), Beijing, China*

Manager: Jilei Tian

- Applied research of web browser logs collected from Nokia Xpress Internet browser (used by 100 million users) and Xpress Now (used by 1 million users), to study user behavior and improve the product, which resulted in 10 accepted patents, 2 published patents [Pat.5, Pat.4], 1 journal paper [J.8] and 1 full conference paper [C.18]

- Product Owner for China team (8 people), responsible for leading the release planning of agile development in the backend of Xpress Now, a content news recommendation platform for Nokia mobile phones and Lumia phones, which was delivered to 4 countries
- Studied user behavior on the mobile web and in social networks, mined the big data from browser logs, and create recommendations of web content based on user profiling and context
- Coordinated project with Northwestern Polytechnical University on finding events using trending keywords in Sina Weibo, which resulted in 1 full conference paper [C.16]

Senior Researcher

Jan 2010 – Aug 2012

*Mobile Social Experiences Team**Nokia Research Center, Beijing, China*

Managers: Hao Wang and Xia Wang

- *Nokia Find & Connect*: Project leader, led R&D team of 10 people in implementation and research of mobile social networking in Nokia offices and conferences such as UIC 2010 and UbiComp 2011, which resulted in 3 patents [Pat.3,Pat.2,Pat.1], 7 workshop papers [W.11,W.10,W.7,W.6,W.5,W.4,W.3], 5 full conference papers [C.13,C.12,C.11,C.10,C.6], 4 journal papers [J.9,J.8,J.6,J.5], 1 poster [PD.4], 2 demos [PD.3, PD.2], and 1 book chapter [B.3]
- *LeXiang*: Project leader, led R&D team of 8 people with concepting and development of an application for activity-based social networking and ephemeral social networking for connecting people from offline to online called LeXiang, which resulted in 1 poster [PD.5] and 1 full conference paper [C.17]
- *Ephemeral social networking and mobile social networking*: Project manager, responsible for initiating, establishing and co-ordinating research agenda with interns, external partners and university collaborators, and working with internal development team for research prototypes
 - Research topics: Identifying and creating ephemeral social networks [B.3, C.6], user behavior in offline and online social networks [C.15, C.12, C.11, W.9] and transition from online to offline [C.13, W.11], effect of event size and interactivity on social networks [c.3], and recommendation of places and people using physical context and content [W.8, W.10, W.5, W.3, C.14]
 - Co-edited a book with Daqing Zhang called Mobile Social Networking: An Innovative Approach [E.4]
- *Research seminar organizer*, responsible for organizing research seminars from outside faculty and industry

Member of Research Staff

Jul 2008 –Dec 2009

*Service Experiences Team and Mobile Social Networking Team**Nokia Research Center, Beijing, China*

Managers: Jyri Salomaa and Hao Wang

- *Mobile Web 2.0 and Social Networking*: Researched Mobile Web 2.0 and social networking technologies for creating services and applications that integrate the phone with online and offline social networks, and created white paper which was praised by Director of the lab and resulted in formation of the Mobile Social Networking Team
- *Nokia VIP Services*: Conducted trial of Nokia VIP Services for Beijing Olympics for VIP guests in August 2008 by analyzing usage of the services, which led to 1 short conference paper [PD.1]
- *Nokia Find & Connect*: Project leader for Nokia Find & Connect, a system for finding physical resources such as meeting rooms and people and connecting to them through ephemeral social networks. Led an R&D team of 10 people and trials were conducted in 3 Nokia offices (Beijing, China; Ruoholahti, Finland; White Plains, USA)

Research Assistant

Sep 2003 – Jul 2008

University of Toronto, Toronto, Canada

Supervisor: Mark Chignell

- *Social Cohesion Analysis of Networks*: Created a framework for identifying, measuring and evaluating subgroups using survey instruments and social network analysis in online communities such as blogs, forums, web video, social networking sites, and VoIP calls, which led to 4 journal papers [J.4, J.3, J.2, J.1], 6 full conference papers [C.8, C.7, C.5, C.3, C.2, CnP.2], 2 short conference papers [c.2, c.1], 1 doctoral consortium paper [DC.1], 1 book article [B.2], and 1 book chapter [B.1]
- *Community-Driven Adaptation*: Adapted web content on mobile devices by observing how users interact with adapted content it had served in the past, which resulted in 1 workshop paper [W.2]
- *User Mobility for Mobile Ad-hoc Wireless Networks*: Investigated possibilities for communication and collaboration amongst users based on fortuitous pair-wise contacts between mobile wireless nodes using Palm handheld devices, which resulted in 1 workshop paper [W.1]

Summer Research Intern

May – Aug 2006

Palo Alto Research Center (PARC), Palo Alto, USA

Manager: Victoria Bellotti

Created a measurement framework for classifying and identifying tasks in e-mail using a Microsoft Outlook plug-in, which resulted in publication of 1 full conference paper [C.4]

Summer Research Intern

May – Aug 2002

Bell University Labs and Bell Canada, Toronto, Canada

Managers: Angela van Damme and Konstantine Liris

Researched service-oriented architectures in a pervasive computing environment for Bell Canada and Masters thesis.

Research Assistant

Jan 2002 – Aug 2003

University of Waterloo, Waterloo, Canada

Advisor: Kostas Kontogiannis

Created and implemented an architectural framework for invoking services in a pervasive computing environment for Masters thesis, which resulted in 1 full conference paper [C.1], 1 position paper [CnP.1], 1 workshop presentation [Cp.1] and 1 poster [P.1].

Technology Analyst

Oct 2000 – Oct 2001

Classwave Wireless Inc., Toronto, Canada

Tested and evaluated Bluetooth and 802.11 products to support Classwave's enterprise server software.

Consultant

May 1999 – Oct 2000

CGI Group, Toronto, Canada

Researched pervasive computing technologies, designed corporate directory solution using Palm devices.

PUBLICATIONS**1. Refereed Publications****Edited Books**

- [E.8] M. Atzmueller, A. Chin, F. Lemmerich and C. Trattner (editors). *Behavioral Analytics in Social and Ubiquitous Environments – Lecture Notes in Artificial Intelligence 11406*. Proceedings of 6th International Workshop on Mining Ubiquitous and Social Environments (MUSE 2015), 6th International Workshop on Modeling Social Media (MSM 2015), 7th International Workshop on Modeling Social Media (MSM 2016), Revised Selected Papers, Springer, 2019.

- [E.7] M. Atzmueller, A. Chin, F. Janssen, I. Schweizer and C. Trattner (editors). *Big Data Analytics in the Social and Ubiquitous Context - Lecture Notes in Computer Science 9546*. Proceedings of 5th International Workshop on Modeling Social Media (MSM 2014), 5th International Workshop on Mining Ubiquitous and Social Environments (MUSE 2014), and First International Workshop on Machine Learning for Urban Sensor Data (SenseML 2014), Revised Selected Papers, Springer, 2016.
- [E.6] M. Atzmueller, A. Chin, C. Scholz and C. Trattner (editors). *Mining, Modeling, and Recommending 'Things' in Social Media – Lecture Notes in Computer Science 8940*. Proceedings of MUSE 2013 and MSM 2013 workshops, Springer, 2015.
- [E.5] A. Chin, J. Bourgeois and L.T. Yang (Guest Editors). Special Issue on Cyber, Physical and Social Computing. *New Review of Hypermedia and Multimedia*, Taylor & Francis, Vol. 20, No. 1, 2014.
- [E.4] A. Chin and D. Zhang (Editors). *Mobile Social Networking: An Innovative Approach*, Springer, New York, USA, 2013.
- [E.3] M. Atzmueller, A. Chin, D. Helic and A. Hotho (editors). *Ubiquitous Social Media Analysis – Lecture Notes in Computer Science / Lecture Notes in Artificial Intelligence 8329*. Proceedings of MSM 2012 and MUSE 2012 workshops, Springer, 2013.
- [E.2] M. Atzmueller, A. Chin, and A. Hotho (editors). *Modeling and Mining Ubiquitous Data – Lecture Notes in Computer Science / Lecture Notes in Artificial Intelligence 7472*. Proceedings of MSM 2011 and MUSE 2011 workshops, Springer, 2012.
- [E.1] M. Atzmueller, A. Hotho, and A. Chin (editors). *Analysis of Social Media and Ubiquitous Data - Lecture Notes in Computer Science / Lecture Notes in Artificial Intelligence 6904*. Proceedings from MSM 2010 and MUSE 2010 workshops, Springer, 2011.

Book Chapters and Articles

- [B.3] A. Chin. “Ephemeral Social Networks”, Book chapter in *Mobile Social Networking: An Innovative Approach*, Springer, New York, USA, 2013.
- [B.2] A. Chin and M. Chignell. “Network Analysis, Automated”, Article in Encyclopedia of Social Networks, Sage Reference, 2012.
- [B.1] A. Chin and M. Chignell. “DISSECT: Data-Intensive Socially Similar Evolving Community Tracker”, Book chapter in *Computational Social Network Analysis: Trends, Tools and Research Advances*, Computer Communications & Networks series, Springer-Verlag, London, 2010.

Journal Publications

- [J.12] J. Tian, A. Chin and H. Yanikomeroglu. “An Introduction to the Special Issue on Connected and Autonomous Driving”, *IEEE IT Professional*, November/December 2018.
- [J.11] B. Guo, A. Chin, Z. Yu, R. Huang, and D. Zhang. “An Introduction to the Special Issue on Participatory Sensing and Crowd Intelligence”, *ACM Transactions on Intelligent Systems and Technology*, vol. 6, no. 3, 2015 (IF: 9.39)
- [J.10] B. Guo, C. Chen, D. Zhang, Z. Yu, and A. Chin. “Mobile Crowd Sensing and Computing: When Participatory Sensing Meets Participatory Social Media”, *IEEE Communications Magazine*, 2015 (IF: 4.46)
- [J.9] Y. Lyu, D. Hong, Y. Wang, Y. Hou, Z. Yang, Y. Chen, Y. Shi and A. Chin. “A Scalable and Privacy-Aware Location-Sensing Model for Ephemeral Social Network Service”. *International Journal of Distributed Sensor Networks*. Hindawi Publishing Corp. 2013, 11 pages.
- [J.8] A. Chin. “What Matters to Me? Smarter Mobile Internet from Context-based Recommendations”. *Digital Special Issue on Mobile Internet*. Chinese Computer Federation, 2013.
- [J.7] H. Zhuang, J. Tang, W. Tang, T. Lou, A. Chin, and X. Wang. “Actively Learning to Infer Social Ties”. *Data Mining and Knowledge Discovery (DMKD)*. Springer, Vol. 25, Issue 2, 2012, 270-297.
- [J.6] B. Xu, A. Chin, X. Wang, W. Wang, and Z. Liu. “From Social Networks to Mobile Social Networks”. *Computer Society Newsletter*, Chinese Computer Federation, 2012 (Chinese).
- [J.5] A. Chin, B. Xu, H. Wang, L. Chang, H. Wang, and L. Zhu. “Connecting People Through Physical Proximity and Physical Resources at a Conference”. *ACM Transactions of Information Systems and Technology*, Special Issue on Intelligent Systems for Socially Aware Computing, 2012.
- [J.4] A. Chin, M. Chignell and H. Wang. “Tracking cohesive subgroups over time in inferred social networks”. *New Review of Hypermedia and Multimedia*, 2010. 16: 1, 113 — 139.

- [J.3] A. Chin, J. Keelan, V. Pavri-Garcia, G. Tomlinson, K. Wilson, and M. Chignell. "Automated Delineation of Subgroups in Web Video: A Medical Activism Case Study". *Journal of Computer-Mediated Communication*, Special Issue on e-Health, 2010.
- [J.2] A. Chin and M. Chignell. "Automatic Detection of Cohesive Subgroups Within Social Hypertext: A Heuristic Approach". *New Review of Hypermedia and Multimedia*. Taylor and Francis, Vol. 14, No. 1, 2008, 121-143.
- [J.1] A. Chin and M. Chignell. "Identifying Communities in Blogs: Roles for Social Network Analysis and Survey Instruments". *International Journal of Web Based Communities (IJWBC)*. Inderscience Publishers, Vol. 3, No. 3, 2007, 343-365.

Conference Full Paper Publications

- [C.25] A. Chin, J. Tian and J. Prenninger. Toward Contextual and Personalized Interior Experience in a Vehicle: Predictive Preconditioning. In *Proc 92nd IEEE Vehicular Technology Conference 2020-Fall (VTC 2020-Fall)*, 4-7 Oct. 2020, Victoria, Canada.
- [C.24] P. Wolf, A. Chin and B. Baker. Unsupervised Data-driven Automotive Diagnostics with Improved Deep Temporal Clustering, In *Proc 90th IEEE Vehicular Technology Conference 2019-Fall (VTC 2019-Fall)*, 22-25 Sept. 2019, Hawaii, USA.
- [C.23] A. Chin, P. Wolf and J. Tian. A Cloud IoT Edge Framework for Efficient Data-Driven Automotive Diagnostics, In *Proc 90th IEEE Vehicular Technology Conference 2019-Fall (VTC 2019-Fall)*, 22-25 Sept. 2019, Hawaii, USA.
- [C.22] O. Laudy, J. Prenninger, A. Chin and J. Tian. Toward Building an Individual Preference Model for Personalizing Settings in the Vehicle, In *Proc 88th IEEE Vehicular Technology Conference 2018-Fall (VTC 2018-Fall)*, 27-30 Aug. 2018, Chicago, USA.
- [C.21] M. He, B. Guo, H. Chen, A. Chin, J. Tian and Z. Yu. "WhozDriving: Abnormal Driving Trajectory Detection by Studying Multi-Faceted Driving Behavior Features," In *Proc 2nd International Conference on Big Data Computing and Communications (BigCom 2016)*, 29-31 Jul. 2016, Shenyang, China
- [C.20] H. Gao, C. H. Liu, W. Wang, Z. Sheng, A. Chin, and Y. Tian, "Maximizing Data Credibility Under Budget Constraint for Participatory Sensing," In *Proc 17th IEEE International Conference on High Performance Computing and Communications (HPCC 2015)*, 24-26 Aug. 2015, New York, USA
- [C.19] Z. Zhang, J. Fu, C. H. Liu and A. Chin, "Personalized Online Video Recommendations by Using Adaptive Feedback Control Frameworks", In *Proc. IEEE International Conference on Communications (ICC), SAC/SN*, 9-12 Jun. 2015, London, UK, 2015, IEEE Computer Society.
- [C.18] M. He, A. Chin, E. Chen, and J. Tian, "Efficient personalized recommendation of web content using an EM-based clustering method", In *Proc. 14th International IEEE Conference on Computer and Information Technology (CIT 2014)*, 11-13 Sept. 2014, Xi'an, China, IEEE Computer Society, 152 - 159 [30% acceptance rate].
- [C.17] A. Chin, W. Wang, and X. Wang, "LeXiang: Share the Joy of Reliving Activities from Offline to Online", Accepted to the *7th International IEEE Conference on Cyber, Physical and Social Computing (CPSCoM 2014)*, 8 pages, 1-3 Sept. 2014, Taipei, Taiwan, IEEE Computer Society.
- [C.16] X. Lu, Z. Y. B. Guo, J. Zhang, A. Chin, J. Tian, and Y. Cao, "Real Time Event Detection in Sina Weibo", Accepted to the *3rd International ASE Conference on Big Data Science and Computing (BigDataScience 2014)*, 8 pages, 4-7 Aug. 2014, Beijing, China [25% acceptance rate].
- [C.15] A. Chin, J. Han, J. Tian, and J. Niu, "A Study of Offline Events and Its Influence on Online Social Connections in Douban", In *Proc. of 6th International IEEE Conference on Cyber, Physical and Social Computing (CPSCoM 2013)*, 20-22 Aug. 2013, Beijing, China, IEEE Computer Society, 1021 - 1028.
- [C.14] L. Wu, A. Chin, G. Xu, L. Du, X. Wang, K. Meng, Y. Guo, and Y. Zhou, "Who Will Follow Your Shop? Exploiting Multiple Information Sources in Finding Followers", Database Systems for Advanced Applications, Lecture Notes in Computer Science, *Proc. 18th International Conference on Database Systems for Advanced Applications (DASFAA 2013)*, 22-25 Apr. 2013, Wuhan, China, Springer, Volume 7826, 2013, 401-415.
- [C.13] X. Zuo, A. Chin, X. Fan, B. Xu, D. Hong, Y. Wang, and X. Wang, "Connecting People at a Conference: A Study of Influence Between Offline and Online Using a Mobile Social Application",

- In Proc. of the 5th IEEE International Conference on Cyber, Physical and Social Computing (CPSCoM 2012), 8 pages, 20-23 Nov. 2012, Besancon, France, IEEE Computer Society.
- [C.12] H. Zhuang, A. Chin, S. Wu, W. Wang, X. Wang, and J. Tang, "Inferring Geographic Coincidence in Ephemeral Social Networks", In Proc. of the *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)*, 613-628, 24-28 Sept. 2012, Bristol, UK.
- [C.11] B. Xu, A. Chin, H. Wang, L. Chang, K. Zhang, F. Yin, H. Wang, and L. Zhang, "Physical Proximity and Online User Behavior in an Indoor Mobile Social Networking Application", Internet of Things (iThings/CPSCoM), In Proc. of the *4th IEEE International Conference on Cyber, Physical and Social Computing (CPSCoM 2011)*, 273-282, 19-22 Oct. 2011, Dalian, China, IEEE Computer Society (Won Best Paper award).
- [C.10] L. Chang, A. Chin, H. Wang, L. Zhu, K. Zhang, F. Yin, H. Wang, and L. Zhang, "Enhancing the Experience and Efficiency at a Conference with Mobile Social Networking: Case Study with Find & Connect", In Proc. of the *International Conference on Human-centric Computing 2011 and Embedded and Multimedia Computing 2011*, Enshi, China, Springer, August 11-13, 2011.
- [C.9] H. Wang, A. Chin and H. Wang, "Social Influence on Being a Pay User in Freemium-based Social Networks", In Proc. of the *2011 IEEE International Conference on Advanced Information Networking and Applications (AINA '11)*. IEEE Computer Society, Washington, DC, USA, 526-533, 2011.
- [C.8] H. Wang and A. Chin, "Evolution Analysis of a Mobile Social Network", In Proc. of the *6th international conference on Advanced data mining and applications: Part I (ADMA'10)*, Longbing Cao, Yong Feng, and Jiang Zhong (Eds.). Springer-Verlag, Berlin, Heidelberg, 310-321, 2010.
- [C.7] A. Chin and H. Wang, "Using Cohesive Subgroups for Analyzing the Evolution of the Friend View Mobile Social Network", In Proc. of the *7th international conference on Ubiquitous intelligence and computing (UIC'10)*, Zhiwen Yu, Ramiro Liscano, Guanling Chen, Daqing Zhang, and Xingshe Zhou (Eds.). Springer-Verlag, Berlin, Heidelberg, 620-634, 2010.
- [C.6] L. Zhu, A. Chin, K. Zhang, W. Xu, H. Wang, and L. Zhang, "Managing Workplace Resources in Office Environments through Ephemeral Social Networks", In Proc. of the *7th international conference on Ubiquitous intelligence and computing (UIC'10)*, Zhiwen Yu, Ramiro Liscano, Guanling Chen, Daqing Zhang, and Xingshe Zhou (Eds.). Springer-Verlag, Berlin, Heidelberg, 665-679, 2010.
- [C.5] A. Chin. "Finding Cohesive Subgroups and Relevant Members in the Nokia Friend View Mobile Social Network", In Proc. of International Conference on Computational Science and Engineering (CSE '09), Symposium of Social Intelligence and Networking, *IEEE Social Computing Conference*, Vancouver, Canada, Vol. 4, 278-283, 2009 [9% acceptance rate].
- [C.4] V. Bellotti, J. Thornton, A. Chin, D. Schiano, and N. Good. "TV-ACTA: Embedding an Activity Centered Interface for Task Management in Email". In *Proceedings of the Conference for E-mail and Anti-Spam 2007 (CEAS 2007)*, Mountain View, CA, 2007, 10 pages [19% acceptance rate].
- [C.3] A. Chin and M. Chignell. "A Social Hypertext Model for Finding Community in Blogs". In *Proceedings of the 17th International ACM Conference on Hypertext and Hypermedia: Tools for Supporting Social Structures (Hypertext 2006)*, Odense, Denmark, 2006, 11-22 [29% acceptance rate].
- [C.2] A. Chin and M. Chignell. "Finding Evidence of Community From Blogging Co-Citations: A Social Network Analytic Approach". In *Proceedings of IADIS International Conference on Web Based Communities 2006 (WBC 2006)*, San Sebastian, Spain, 2006, 191-200.
- [C.1] A. Chin and K. Kontogiannis. "m-Roam: A Service Invocation and Roaming Framework for Pervasive Computing", In *Proceedings of the 18th IEEE International Conference on Advanced Intelligent Network Applications (AINA 2004)*, Fukuoka, Japan, 2004, 385-392 [26% acceptance rate].

Conference Short Paper and Works-in-Progress Publications

- [c.3] B. Xu, A. Chin and D. Cosley. "On How Event Size and Interactivity Affect Social Networks". In CHI '13 Extended Abstracts on Human Factors in Computing Systems (CHI EA '13). ACM, New York, NY, USA, 865-870 [45% acceptance rate].

- [c.2] A. Chin and M. Chignell. "Identifying Active Subgroups within Online Communities". In *Proceedings of the 17th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2007)*, Toronto, Canada, 2007, 280-283 [27% acceptance rate].
- [c.1] A. Chin and M. Chignell. "Identifying Subcommunities Using Cohesive Subgroups in Social Hypertext". In *Proceedings of the 18th International ACM Conference on Hypertext and Hypermedia (Hypertext 2007)*, Manchester, UK, 2007, 175-178 [29% acceptance rate].

Doctoral Consortium

- [DC.1] A. Chin. "Searching for Sense of Virtual Community in Social Hypertext". In *Adjunct Proceedings of the 5th International Conference on Pervasive Computing (Pervasive 2007)*, Toronto, Canada, Vol. 219, 2007, 189-195.

Posters and Demos Publications

- [PD.6] H. Chen, B. Guo, Z. Yu, A. Chin and J. Tian. "Which is the Greenest Way Home? A Lightweight Eco-Route Recommendation Framework based on Personal Driving Habits". In *Adjunct Proc. 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2016)*, ACM, Heidelberg, Germany, 12-16 Sept. 2016. (Poster)
- [PD.5] A. Chin, W. Wang, and X. Wang. "LeXiang: Record, Share and Connect to Relive Activities from Offline to Online". In *Proc. of the Second International Symposium of Chinese CHI (Chinese CHI '14)*. ACM, New York, NY, USA, 2 pages (Poster)
- [PD.4] A. Chin, H. Wang, L. Zhu, B. Xu, K. Zhang, and H. Wang. "Connecting People in the Workplace Through Ephemeral Social Networks". In *Proc. of IEEE 3rd International Conference on Social Computing (SocialCom 2011)*, 2011, 527-530 (Poster)
- [PD.3] A. Chin, H. Wang, L. Zhu, B. Xu, and H. Wang. "Connecting people through physical resources in an office environment". In *Proc. of the 13th International Conference on Ubiquitous Computing (UbiComp '11)*. ACM, New York, NY, USA, 2011, 475-476. (Demo)
- [PD.2] H. Wang, L. Zhu and A. Chin. "An Indoor Location-based Social Network for Managing Office Resource and Connecting People". In *Proc of the 2010 Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing (UIC-ATC '10)*. IEEE Computer Society, Washington, DC, USA, 481-483. (Demo)
- [PD.1] A. Chin and J.P. Salomaa. "A User Study of Mobile Web Services and Applications from the 2008 Beijing Olympics", *Hypertext 2009 Conference*, Turin, Italy, 2009. (Poster)

Workshop and Symposium Publications

- [W.12] J. Zhang, B. Guo, Z. Yu, H. Chen, J. Tian and A. Chin, "PublicSense: Refined Urban Sensing and Public Facility Management with Crowdsourced Data". *7th International Symposium on UbiCom Frontiers - Innovative Research, Systems and Technologies*, co-located with IEEE UIC 2015, IEEE., 2015.
- [W.11] A. Chin, B. Xu, C. Zhao, and X. Wang. "From offline to online: connecting people with a mobile social networking application at a conference". In *Proc. of the Second International Symposium of Chinese CHI (Chinese CHI '14)*. ACM, New York, NY, USA, 40-49.
- [W.10] A. Chin, B. Xu, and H. Wang. "Who should I add as a "friend"? a study of friend recommendations using proximity and homophily". In *Proc. of the 4th International Workshop on Modeling Social Media (MSM '13)*. ACM, New York, NY, USA, Article 7, 7 pages, May 1, 2013.
- [W.9] J. Han, A. Chin, J. Niu, W. Wang, C. Tong, and X. Wang. "How Online Social Network Affects Offline Events: A Case Study on Douban", In the 2012 International Workshop on Ubiquitous Service Models and Applications (USMAP 2012), *9th International Conference on Ubiquitous Intelligence and Computing (UIC 2012)*, 8 pages, Fukuoka, Japan, Sept. 4-7, 2012.
- [W.8] L. Wu, A. Chin, Y. Zhou, X. Wang, K. Meng, Y. Guo, and J. Li. "Context-Aware Prediction of User's First Click", Accepted to the 1st International Workshop on Context Discovery and Data Mining, *18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2012)*, Beijing, China, August 12, 2012.
- [W.7] A. Chin, B. Xu, H. Wang, and X. Wang. "Linking People Through Physical Proximity in a Conference", Accepted to the 3rd International Workshop on Modeling Social Media (MSM 2012), *ACM Hypertext 2012 Conference*, Milwaukee, Wisconsin, USA, June 25, 2012.

- [W.6] A. Chin, B. Xu, F. Yin, X. Wang, W. Wang, X. Fan, D. Hong and Y. Wang. "Using Proximity and Homophily to Connect Conference Attendees in a Mobile Social Network", In Proc. 2nd International Workshop on Sensing, Networking and Computing with Smartphones (PhoneCom 2012), 32nd International Conference on Distributed Computing Systems, Macau, China, 2012.
- [W.5] B. Xu, A. Chin, H. Wang and H. Wang. "Using Physical Context in a Mobile Social Networking Application for Improving Friend Recommendations", In Proc. 1st International Workshop on Sensing, Networking and Computing with Smartphones (PhoneCom 2011), *IEEE Cyber-Physical and Social Computing (CPSCom) 2011 conference*, Dalian, China, 2011.
- [W.4] B. Xu, A. Chin, H. Wang, H. Wang and L. Zhang, "Social Linking and Physical Proximity in a Mobile Location-based Service", In Proc. 1st International Workshop on Mobile Location based Services (MLBS 2011), *UbiComp 2011*, Beijing, China, Sept. 19, 2011.
- [W.3] H. Wang, A. Chin and H. Wang, "Interplay between Social Selection and Social Influence on Physical Proximity in Friendship Formation", 2nd International Workshop on Social Recommender Systems, *The 2011 ACM Conference on Computer Supported Cooperative Work (CSCW 2011)*, Hangzhou, China, March 18, 2011.
- [W.2] I. Mohamed, A. Chin, J. Cai and E. de Lara. "Community-Driven Adaptation: Automatic Content Adaptation in Pervasive Environments". In *Proceedings of the 6th IEEE Workshop on Mobile Computing, Systems and Applications (WMCSA 2004)*, English Lake District, UK, 2004, 124-133 [25% acceptance rate].
- [W.1] J. Su, A. Chin, A. Goel and E. de Lara. "User Mobility for Opportunistic Ad-Hoc Networking". In *Proceedings of the 6th IEEE Workshop on Mobile Computing, Systems and Applications (WMCSA 2004)*, English Lake District, UK, 2004, 41-50 [25% acceptance rate].

2. Non-refereed Publications

Technical Report Publications

- [TR.5] A. Chin and J. Salomaa. "A User Study of Mobile Web Services and Applications from the 2008 Beijing Olympics". Nokia Research Center Technical Report, Nokia, 2009.
- [TR.4] A. Chin and M. Chignell. "Social Computing: Best Practices". IBM Technical Report #74.207, 16th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2006), Editors: Julie Waterhouse and Daniel Zilio, Toronto, Canada, Oct 2006.
- [TR.3] A. Chin and M. Chignell. "Business of Blogging: Being Social in a Pervasive Networked World". IBM Technical Report #74.205-23, 15th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2005), Editors: Julie Waterhouse and Daniel Zilio, Toronto, Canada, Oct 2005.
- [TR.2] A. Chin, E. de Lara and G. Banavar. "Content and Application Customization for Pervasive Computing". IBM Technical Report #74.203-14, 14th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2004), Editors: Julie Waterhouse and Daniel Zilio, Toronto, Canada, Oct 2004.
- [TR.1] A. Chin. "Supporting Advanced Service Discovery in Bluetooth Using Jini Technology". University of Waterloo Technical Report #2003-2, *University of Waterloo*, Waterloo, Canada, Jan 2003.

Conferences and Workshops Without Proceedings

- [CnP.3] A. Chin and N. Ko. "Evaluation of Network Dynamics in the TakingITGlobal Community". *Sunbelt Social Networking Conference*, 2009.
- [CnP.2] A. Chin and M. Chignell. "Investigating Evolution of Community in Blogs". *International Sunbelt Social Networking Conference*, Vancouver, Canada, Apr 2006.
- [CnP.1] A. Chin and K. Kontogiannis. "Context-Aware Service Provisioning". Position paper, Enterprise Application Integration Workshop, *Software Technology and Engineering Practice International Conference (STEP 2003)*, Sep 2003.

Magazine Publications

- [M.3] J.Tian, A. Chin and M. Karg. "Digital Services in the Automotive Industry, IEEE Magazine on Computing Edge, page 28-30, December 2016, (recommended to reprint as "Hot Topics" by IEEE CS)
- [M.2] J. Tian, A. Chin and M. Karg. "Digital Services in the Automotive Industry" (From the Editors). *IEEE IT Professional*, July 2016.
- [M.1] M.V.A. Bonto-Kane, A. Chin, S. McCarthy, M. Srikulwong, and P.J. Timmins. "Pervasive 2007: It's About the User". *IEEE Pervasive Computing*, Vol. 6. No. 4, 95-96, c3, Oct-Dec 2007.

INVITED TALKS

- [I.40] A.Chin. "How BMW's Connected Vehicles Leverage Artificial Intelligence", Invited talk at BMW Innovation TechTalk to Asia BMW colleagues, BMW, online, June 16, 2020.
- [I.39] A.Chin. "Machine Learning and AI for Connected and Autonomous Driving", Invited talk at The Mid-America Club IT Club, Chicago, USA, January 30, 2020.
- [I.38] A.Chin. "Powering the Ultimate Driving Machine with Machine Learning", Invited talk at PyData Chicago meetup, Chicago, USA, June 3, 2019.
- [I.37] A.Chin. "Powering the Ultimate Smart Driving Machine with Machine Learning", Invited talk at Beijing Institute of Technology, Beijing, China, April 11, 2019.
- [I.36] A. Chin. "Powering the Ultimate Driving Machine with Machine Learning", Invited talk at Institute of Industrial and Systems Engineers, UIC student chapter, UIC, Chicago, USA, February 2019.
- [I.35] A.Chin. "Powering the Ultimate Driving Machine with Machine Learning", Invited talk at DePaul University Predictive Analytics graduate course, Chicago, USA, May 2018.
- [I.34] A.Chin. "Powering the Ultimate Driving Machine with Machine Learning", Invited talk at IEEE Vehicular Technology Society Chicago, Chicago, USA, April 2018.
- [I.33] A.Chin. "Powering the Ultimate Driving Machine with Machine Learning", Invited talk at Chicago Machine Learning meetup, Chicago, USA, April 2018.
- [I.32] A.Chin. "The Magic of BMW Connected", Internal technology talk at BMW Technology Corporation, Chicago, USA, April 2018.
- [I.31] A.Chin. "The Ultimate Smart Driving Machine: How Machine Learning Powers the Connected Car", Invited talk at IEEE Computer Chicago, Chicago, USA, February 2018.
- [I.30] A.Chin. "Building the Ultimate Smart Driving Machine: Machine Learning in the Connected Car". Invited talk at IT Connect group at The Mid-America Club, Chicago, USA, July 2017.
- [I.29] A. Chin. "How Machine Learning Powers the Connected Car". Invited talk at ACM Chicago meetup, May 2017.
- [I.28] J.Hamilton and A.Chin. "From Instinct to Insight: How BMW Uses Analytics to Understand Consumers". Invited talk at Marketing Analytics track of Business Analytics Innovation Summit, Chicago, IL, USA, May 2017.
- [I.27] A.Chin. "The Ultimate Smart Driving Experience". Invited talk at Georgia Institute of Technology, Atlanta, GA, USA, February 2017.
- [I.26] A.Chin. "The Ultimate Smart Driving Machine: Powering the Connected Car with Machine Learning". Invited talk at Northwestern University Transportation Workshop, Evanston, IL, October 2016.
- [I.25] A.Chin. "The Connected Car: Connecting the Car Using Big Data and Machine Learning". Invited talk at IT Connect group at The Mid-America Club, Chicago, USA, June 2016.
- [I.24] A.Chin. "Research Issues and Challenges in Big Data". Invited talk at University of Toronto alumni Beijing event on "Marching It In With Big Data", Beijing, China, March 2015.
- [I.23] A.Chin. "Recommending People, Places and Content through Mobile Social Networks". Invited talk at Lenovo, Beijing, China, January 2015.
- [I.22] A. Chin. "Recommending People, Places and Content through Mobile Social Networks". Invited talk at JD.com (JingDong), Beijing, China, January 2015.

- [I.21] A. Chin. "Recommending People, Places and Content through Mobile Social Networks". Invited talk at IBM Research, Beijing, China, October 2014.
- [I.20] A. Chin. "Recommending People, Places and Content through MSNs". Invited talk at Northwestern Polytechnical University, Xi'an, China, September 2014.
- [I.19] A. Chin. "Recommending People, Places and Content through MSNs". Invited talk at Xidian University, Xi'an, China, September 2014.
- [I.18] A. Chin. "Recommending Content and People Through Mobile Social Networks". Invited talk at National Tsing Hua University, Hsin-Chu, Taiwan, September 2014.
- [I.17] A. Chin. "Connecting People Through Mobile Social Networks". Invited keynote at 7th ASE International Conference on Social Computing (SocialCom 2014 Beijing), Tsinghua University, Beijing, China, August 2014.
- [I.16] A. Chin. "What Matters to Me? Personalized Recommendations". Invited talk at Chinese Academy of Sciences, Beijing, China, June 2014.
- [I.15] A. Chin. "Nokia Xpress Analytics". Internal talk at Big Data Community seminar, Nokia, June 2013.
- [I.14] A. Chin. "What Matters to Me? Creating Personalized SoLoMo Recommendations". Invited talk at Social Media Lab event, Hong Kong University of Science and Technology, Cyberport, Hong Kong, May 2013.
- [I.13] A. Chin. "What Matters to Me? Creating Personalized SoLoMo Recommendations". Invited talk at Institut Telecom Sud de Paris, Evry, France, April 2013.
- [I.12] A. Chin. "Connecting to People Through Ephemeral Social Networks". Invited talk at Huawei Research, Hong Kong, June 2012.
- [I.11] A. Chin. "Connecting to People Through Ephemeral Social Networks". Invited talk at Hong Kong University of Science and Technology, Hong Kong, June 2012.
- [I.10] A. Chin. "Connecting to People Through Ephemeral Social Networks". Invited talk at University of Hong Kong, Hong Kong, June 2012.
- [I.9] A. Chin. "Finding and Connecting to the People that Matter the Most through Mobile Social Networks". Invited talk at the Department of Computer Science, University of Toronto, Toronto, October 2011.
- [I.8] A. Chin. "Finding and Connecting to the People that Matter the Most through Mobile Social Networks". Invited talk at Hong Kong Baptist University, Hong Kong, May 5, 2011.
- [I.7] A. Chin. "Finding and Connecting to the People that Matter the Most through Mobile Social Networks". Invited talk at City University of Hong Kong, Hong Kong, May 3, 2011.
- [I.6] A. Chin. "Advances in Mobile Social Networks". Invited speaker at Mobile Monday Beijing #36, Orange Labs, Beijing, China, Aug. 30, 2010.
- [I.5] A. Chin. "Finding and Connecting to the People that Matter the Most in Mobile Social Networks". Invited talk at National University of Singapore, Singapore, August 2010.
- [I.4] A. Chin. "Finding Community in Social Networks". *Nokia Research Center*, Beijing, China, April 2008.
- [I.3] A. Chin. "Finding Community in Social Networks". Department of Computer Science and Engineering, *Oakland University*, Rochester, Michigan, March 2008.
- [I.2] A. Chin. "Identifying Community in TorCamp". DemoCamp15, *TorCamp* (Toronto-based chapter of BarCamp), Toronto, Canada, Oct 2007.
- [I.1] A. Chin and M. Chignell. "Building Communities Through Blogging". *Microsoft Research Asia*, Beijing, China, Aug 2005.

CONFERENCE, WORKSHOP AND PANEL TALKS

- [Cp.18] A. Chin. "Machine Learning and AI for Automotive". Invited speaker and panelist at 27th Association for Chinese Scientists and Engineers Conference, Chicago, USA, Oct. 2019.
- [Cp.17] A. Chin. "Powering the Connected Car with Machine Learning". Invited speaker at 26th Association for Chinese Scientists and Engineers Conference, Chicago, USA, Oct. 13, 2018.
- [Cp.16] A. Chin. Invited panelist at Panel Discussion on Connected, Autonomous and Electric Vehicles at the 88th IEEE Conference on Vehicular Technology (VTC Fall 2018), Chicago, USA, Aug. 27-30, 2018.

- [Cp.15] A. Chin. "Building the Ultimate Smart Driving Machine: Integrating Digital Services with the Vehicle". Invited keynote at 2nd Workshop on Vehicular Information Services for Internet of Things at the 88th IEEE Conference on Vehicular Technology (VTC Fall 2018), Chicago, USA, Aug. 27-30, 2018.
- [Cp.14] A. Chin. Invited panelist at Panel Discussion on Smart City at the 86th IEEE Conference on Vehicular Technology (VTC Fall 2017), Toronto, Canada, Sept. 24-27, 2017.
- [Cp.13] A. Chin. Invited panelist at Panel Discussion on Perspectives on Next Generation Mobile Networks and Services at the 14th International Conference on Computer and Information Technology (CIT 2014), Xi'an, China, Sept. 13, 2014.
- [Cp.12] A. Chin. "What Matters to Me? Personalized contextual recommendations". Invited speaker at City Dynamics and Social Intelligence Workshop, Fudan University, Shanghai, June 29, 2014.
- [Cp.11] A. Chin. "Big Data, Social Networking and Mobile". Invited panelist at Panel Discussion on Star Trek - The Next Frontier: The Future of Cybermatics at the 6th International Conference on CPSCoM/iThings/GreenCom 2013, Beijing, China, Aug. 21, 2013.
- [Cp.10] A. Chin. "Trust in Mobile Social Networks". Invited speaker at Panel Discussion on Trust at the 5th International Conference on CPSCoM/iThings/GreenCom 2012, Besancon, France, Nov. 21, 2012.
- [Cp.9] A. Chin. "Finding and Connecting to People through Ephemeral Social Networks". Invited speaker at 3rd International Workshop on Mobile Information Retrieval for the Future, Tokyo, Japan, Nov. 7, 2011.
- [Cp.8] A. Chin. "Advances in Mobile and Social Networking". Invited speaker at Social Networking Conference 2009, London, UK, Sept. 2009.
- [Cp.7] A. Chin. "Nokia Mobile Web 2.0". SphereConnect Fast Pitch, Nokia SphereConnect 2008, Nokia, Helsinki, Finland, Oct 2008 (one out of 12 selected in finals to present out of 60 total submissions).
- [Cp.6] A. Chin and M. Chignell. "Structural Analysis of Social Hypertext for Finding Sense of Community". *Bell University Labs Social Networking Symposium*, Bell University Labs, University of Toronto, Toronto, Canada, Nov 2007.
- [Cp.5] A. Chin. "Inferring Community from Tagging". Tagging as a Social Contract Workshop, 2nd Working Conference on Social Computing and Business, 17th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2007), Toronto, Canada, Oct 2007.
- [Cp.4] A. Chin and M. Chignell. "Introduction and Results from the CASCON 2005 Business of Blogging Workshop". Social Computing Best Practices Workshop, 1st Working Conference on Social Computing and Business, 16th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2006), Toronto, Canada, Oct 2006.
- [Cp.3] A. Chin, S. Chua, A. Xu and M. Chignell. "Building Communities Through Blogging". Business of Blogging Workshop, 15th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2005), Toronto, Canada, Oct 2005.
- [Cp.2] A. Chin. "Feedreading, RSS and Podcasting". Hands-on Workshop on the Latest Technologies, 15th IBM Centre for Advanced Studies' Annual International Conference on Collaborative Research (CASCON 2005), Toronto, Canada, Oct 2005.
- [Cp.1] A. Chin and K. Kontogiannis. "Service Invocation and Roaming". Pervasive Computing Workshop, 12th and 13th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2002 and 2003), Toronto, Canada, Oct 2002 and 2003.

POSTERS AND DEMOS

- [P.6] A. Chin and M. Chignell. "Discovering Communities in Online Collaborative Environments". *DGPis40 Dynamic Graphics Project conference*, University of Toronto, Toronto, Canada, May 2008.
- [P.5] A. Chin, A. Malandrino, S. Darvish, S. Gonzalez, A. Chignell, and M. Chignell. "Video Web 2.0: Metadata Indexing and Searching in Web Video". 17th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2007), Toronto, Canada, Oct 2007.
- [P.4] A. Chin and M. Chignell. "A Social Hypertext Model for Finding Community in Blogs". 16th IBM Centre for Advanced Studies' Conference on Collaborative Research (CASCON 2006), Toronto, Canada, Oct 2006.

- [P.3] A. Chin, A. Xu, S. Chua, M. Gilanpour, and M. Chignell. "Building Communities Through Blogging". *15th IBM Centre for Advanced Studies' Conference on Collaborative Research 2005 (CASCON 2005)*, Toronto, Canada, Oct 2005.
- [P.2] I. Mohamed, A. Chin, J. Cai and E. de Lara. "Community-Driven Adaptation". *2nd International Conference on Mobile Systems, Applications and Services (MobiSys 2004)*, Boston, USA, Jun 2004.
- [P.1] A. Chin and K. Kontogiannis, K. "Service Invocation and Roaming in Pervasive Computing". *Bell Mobility National Wireless Research Conference*, Mississauga, Canada, Nov 2002.

PROFESSIONAL SERVICE

- ◆ **Publicity Co-Chair**, The 92nd International IEEE Conference on Vehicular Technology (VTC2020-Fall), Victoria, Canada, October 4-7, 2020.
- ◆ **General Chair**, IEEE Chicago Section Fair 126th Anniversary, Chicago, IL, USA, October 3, 2020.
- ◆ **Program Committee Member**, The 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2020), San Diego, California, August 21-26, 2020.
- ◆ **Secretary**, IEEE Vehicular Technology Society Standard on Connected and Automated Vehicles, IEEE Standards Association, January 2020 – present.
- ◆ **Treasurer Co-Chair**, The 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2019), Chicago, IL, USA, November 5-8, 2019.
- ◆ **Keynote Sessions Chair, Connected and Autonomous Vehicles**, The 90th International IEEE Conference on Vehicular Technology (VTC2019-Fall), Hawaii, USA, September 25, 2019.
- ◆ **Industry Sessions Co-Chair**, The 90th International IEEE Conference on Vehicular Technology (VTC2019-Fall), Hawaii, USA, September 22-25, 2019.
- ◆ **Program Committee Member**, The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2019), Anchorage, Alaska, August 4-8, 2019.
- ◆ **Member of Editorial Board**, IEEE Open Journal of Vehicular Technology (new journal in Fall 2019), August 2019 – present.
- ◆ **Chair**, IEEE Computer Society Chicago, Chicago, IL, USA, August 2019 - present
- ◆ **Workshop Co-chair**, 10th International Workshop on Modeling Social Media: Mining, Modeling and Learning from Social Media, Co-located with TheWebConf 2019, San Francisco, USA, May 13, 2019.
- ◆ **Program Committee Member**, Track 10: Vehicular Communications, Networks and Telematics, The 89th International IEEE Conference on Vehicular Technology (VTC 2019-Spring), Kuala Lumpur, Malaysia, April 28 – May 1, 2019.
- ◆ **Promotions Chair**, IEEE Chicago Section Fair: A Celebration of 125 Years, Illinois Institute of Technology, Chicago, IL, USA, April 27, 2019.
- ◆ **Chair**, IEEE Vehicular Technology Society Chicago Chapter, Chicago, IL, USA, January 2018 – present.
- ◆ **Vice-Chair**, ACM Chicago, Chicago, IL, USA, September 2018 – present.
- ◆ **Director of Media Communications**, ACM Chicago, Chicago, IL, USA, September 2017 – August 2018.
- ◆ **Vice-Chair**, IEEE Computer Society Chicago Chapter, Chicago, IL, USA, January 2018 – July 2019.
- ◆ **Guest Co-editor**, Special Issue on Connected and Autonomous Driving, IEEE IT Professional, November/December 2018 issue.
- ◆ **Industry Track Co-Chair**, The 5th International Conference on Behavioral, Economic and Socio-Cultural Computing, Taiwan, November 12-14, 2018.
- ◆ **Student Project Competition Judge**, Product Development Management Association Conference, Chicago, IL, Sept. 25, 2018.
- ◆ **Program Committee Member**, IEEE Connected and Autonomous Vehicles Symposium (CAVS 2018), The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA, August 27-30, 2018.

- ◆ **Industry Track Co-Chair**, The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA, August 27-30, 2018.
- ◆ **Panel Organizer**, Autonomous, Connected and Electric Vehicles industry panel, The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA, August 27-30, 2018.
- ◆ **Workshop Co-chair**, International Workshop on Modeling Social Media: Applying Machine Learning and AI for Modeling Social Media, Co-located with TheWebConf 2018, Lyon, France, April 24, 2018.
- ◆ **Panelist**, Panel on Smart Cities, The 86th International IEEE Conference on Vehicular Technology (VTC-2017-Fall), Toronto, ON, Canada, Sept. 24 to 27, 2017.
- ◆ **Program Committee Member**, 3rd IEEE International Conference on Internet of People (IoP), San Francisco Bay Area, August 4-8, 2017.
- ◆ **Technical Program Committee Member**, 10th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom-2017), Exeter, UK, June 21-23, 2017.
- ◆ **Track Co-chair**, Track #7: Mobile Network Applications and Services, 2017 IEEE 85th Vehicular Technology Conference, Sydney, Australia, June 4-7, 2017.
- ◆ **Workshop Co-chair**, International Workshop on Modeling Social Media: Machine Learning and AI for Modeling and Analyzing Social Media, Co-located with WWW 2017, Perth, Australia, April 4, 2017.
- ◆ **Program Committee Member**, The 9th International Conference on Cyber, Physical and Social Computing, (CPSCom 2016), Chengdu, China, December 15-18, 2016.
- ◆ **Industry Track Co-Chair**, The 3rd International Conference on Behavioral, Economic, and Socio-Cultural Computing (BESC 2016), Durham, NC, USA, Nov. 11-13, 2016.
- ◆ **Program Committee Member (Research Track)**, The 22nd ACM SIGKDD Conference on Knowledge, Discovery and Data Mining (KDD 2016), San Francisco, USA, Aug. 13-17, 2016.
- ◆ **Workshop Program Committee Member**, The First International Workshop on Crowd Intelligence for Smart Cities: Technology and Applications (CISC 2016), IEEE Ubiquitous and Intelligent Computing (UIC 2016), Toulouse, France, Jul. 18, 2016.
- ◆ **General Co-Chair**, The 2nd International Conference on Internet of People (IoP 2016), Toulouse, France, Jul. 18-21, 2016.
- ◆ **Program Committee Member**, The 27th ACM Conference on Hypertext and Social Media (Hypertext 2016), Halifax, Canada, Jul. 10-13, 2016.
- ◆ **Technical Program Co-Chair**, The 9th EAI International Conference on Mobile Multimedia Communications (MobiMedia 2016), Xi'an, China, June 18-19, 2016.
- ◆ **Guest Co-Editor**, IEEE IT Professional, May 2016.
- ◆ **Workshop Co-Chair**, 7th International Workshop on Modeling Social Media - Behavioural Analytics on the Web (MSM 2016, co-located with WWW 2016), Montreal, Canada, April 11-13, 2016.
- ◆ **Postproceedings Co-Chair**, Postproceedings of MSM/MUSE/SenseML 2014 workshops. March 2015 – present.
- ◆ **Track Co-Chair**, Smart Mobile Systems and Social Media, Embedded and Ubiquitous Computing Conference (EUC 2015). Porto, Portugal, Oct. 21-23, 2015.
- ◆ **Workshop and Tutorial Co-chair**, The 2015 ACM International Conference on Hypertext and Social Media (HT 2015), Cyprus, September 2015.
- ◆ **General Chair**, The 2015 IEEE International Conference on Cloud and Big Data (CBDCCom 2015), Beijing, China, August 2015.
- ◆ **Video Co-Chair**, The 2015 IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015), Beijing, China, August 2015.
- ◆ **Industry Track Co-Chair**, The 2015 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2015), Wroclaw, Poland, August 2015.
- ◆ **Workshop Co-Chair**, 9th IEEE International Conference on Big Data Science and Engineering (BigDataSE 2015), Helsinki, Finland, August 2015.
- ◆ **Workshop Co-chair**, The 6th International Workshop on Modeling Social Media (MSM 2015), co-located with ACM WWW 2015, Florence, Italy, May 18-22, 2015.
- ◆ **Paper Reviewer**, The 2015 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP 2015), March 31-April 3, 2015.
- ◆ **Workshop Program Committee Member**, Workshop on Social Personalization. Co-located with ACM

- Hypertext 2014, Santiago, Chile, Sept. 1-4, 2014.
- ♦ **Program Chair**, The 14th International Conference on Computer and Information Technology (CIT 2014). Xian, China, Sept. 11-13, 2014.
 - ♦ **Steering Committee Member**, IEEE Cyber, Physical and Social Computing (CPSCoM 2014). Taipei, Taiwan, Sept. 1-3, 2014.
 - ♦ **Track Co-Chair**, Smart Mobile Systems and Social Media, Embedded and Ubiquitous Computing Conference (EUC 2014). Milan, Italy, Aug. 26-28, 2014.
 - ♦ **Panel Co-Chair**, The 2014 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2014). Beijing, China, Aug. 17-20, 2014.
 - ♦ **Executive Chair**, The 3rd ASE International Conference on Big Data Science and Computing (BigDataScience 2014) / The 7th ASE International Conference on Social Computing (SocialCom 2014). Beijing, China, Aug. 4-7, 2014.
 - ♦ **Guest Editor**, Special Issues on Smartphone-based Interactive Technologies, Systems and Applications, ACM Transactions on Multimedia Computing, Communications and Applications (TOMM), June 2014 to present.
 - ♦ **Program Committee Member and Publicity Co-Chair**, Chinese Computer-Human Interaction (ChineseCHI 2014), Co-located with CHI 2014, Toronto, Canada, April 26-27, 2014.
 - ♦ **Workshop Co-chair**, The 5th International Workshop on Modeling Social Media (MSM 2014), co-located with ACM WWW 2014, Seoul, Korea, April 8, 2014.
 - ♦ **Program Committee Member**, The 2014 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP 2014). April 2-4, 2014.
 - ♦ **Workshop Co-chair**, 1st International Workshop on Mining and Understanding Big Data (BigMUD 2013), ICDM 2013 conference, Dallas, Texas, USA, Dec. 8, 2013.
 - ♦ **Paper Reviewer**, Transactions on Parallel and Distributed Systems, IEEE, Sept. 2013 to present.
 - ♦ **Paper Reviewer**, IT Professional, IEEE, Sept. 2013 to present.
 - ♦ **Paper Reviewer**, Embedded and Ubiquitous Computing 2013 Conference, Aug. 2013.
 - ♦ **Paper Reviewer**, Pervasive and Mobile Computing, Elsevier, Jan. 2013 to present.
 - ♦ **Guest Editor**, Participatory Sensing and Crowd Intelligence, Special Issue in ACM Transactions on Intelligent Systems and Technology, ACM, 2013.
 - ♦ **Book Editor**, Mobile Social Networking: An Innovative Approach, Springer, 2013.
 - ♦ **General Chair**, The 6th International Conference on Cyber, Physical and Social Computing (CPSCoM 2013), Beijing, China, Aug. 20-23, 2013.
 - ♦ **Workshop Co-Chair**, The 3rd International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2013), co-located with IEEE CPSCoM 2013, Beijing, China, Aug. 20, 2013.
 - ♦ **Program Committee Member**, The 3rd International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2013), co-located with the 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-13), Melbourne, Australia, July 16-18, 2013.
 - ♦ **Workshop Co-Chair**, The 4th International Workshop on Modeling Social Media (MSM 2013), co-located with ACM Hypertext 2013, Paris, France, May 1, 2013.
 - ♦ **Program Committee Member**, Track on Linking People, The 24th ACM Conference on Hypertext and Social Media, Paris, France, May 1-3, 2013.
 - ♦ **Program Committee Member**, 2013 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP13), April 2-5, 2013.
 - ♦ **Program Committee Member**, The ACM Conference on Computer-Supported and Collaborative Work (CSCW 2013), San Antonio, Texas, Feb. 23-27, 2013.
 - ♦ **Program Committee Member**, The 2nd International Workshop on Real-Time Analysis and Mining of Social Streams (RAMSS), co-located with ACM WWW 2013, Rio de Janeiro, Brazil, May 14, 2013.
 - ♦ **Paper Reviewer**, IEEE Communications Magazine, IEEE, 2013-present.
 - ♦ **Program Co-Chair**, The 5th International Conference on Cyber, Physical and Social Computing (CPSCoM 2012), Besancon, France, Nov. 20-23, 2012.
 - ♦ **Program Committee Member**, #Influence12 – Symposium & Workshop on Measuring Influence on Social Media, Halifax, Nova Scotia, Canada, Sept. 28-29, 2012.
 - ♦ **Research Seminar Organizer**, Nokia Research Center, Beijing, China, January 2009 to July 2012.

- ◆ **Paper Reviewer**, ACM International Conference on Mobile Human-Computer Interaction (MobileHCI 2012), San Francisco, USA, Sept. 21-24, 2012.
- ◆ **Paper Reviewer**, The 9th International Conference on Ubiquitous Intelligence and Computing (UIC 2012), Fukuoka, Japan, Sept. 4-7, 2012.
- ◆ **Workshop Co-Chair**, The 1st International Workshop on Context Knowledge and Data Discovery (ContextDD 2012), co-located with ACM KDD, Beijing, China, Aug. 12, 2012.
- ◆ **Industry Track Chair**, The 13th International Conference on Mobile Data Management (MDM 2012), Bengaluru, India, July 23-26, 2012.
- ◆ **Guest Editor**, Special Issue on Cyber, Physical and Social Computing, New Review of Hypermedia and Multimedia, 2012-2013.
- ◆ **Program Committee Member**, International Workshop on Social Computing, Networking and Services (SocialComNet 2012), Vancouver, Canada, June 26-28, 2012.
- ◆ **Program Committee Member**, 2nd IEEE International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2012), Liverpool, UK, June 25-27, 2012.
- ◆ **Workshop Co-Chair**, The 3rd International Workshop on Modeling Social Media (MSM 2012), co-located with ACM Hypertext, Milwaukee, USA, June 25, 2012.
- ◆ **Program Committee Member**, Mobile Data Challenge, The 10th International Conference on Pervasive Computing (Pervasive 2012), Newcastle University, UK, June 18-22, 2012.
- ◆ **Workshop Co-Chair**, The 2nd International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2012), co-located with IEEE ICDCS 2012, Macao, China, June 18, 2012.
- ◆ **Program Committee Member**, The 1st International Workshop on Internet of Things (IoT-App 2012), Beijing, China, April 16, 2012.
- ◆ **Paper Reviewer**, International Conference on Social Computing, Behaviour-Cultural Modeling and Prediction (SBP 2012), University of Maryland, College Park, MD, USA, April 3-5, 2012.
- ◆ **Guest Editor**, Human-centric Computing and Information Sciences (HCIS) journal, Springer, Feb. 2012 - present
- ◆ **Program Committee Member**, IEEE International Workshop on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2011), Changsha, China, Nov. 16-18, 2011.
- ◆ **Workshop Co-Chair**, The 1st International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2011), co-located with IEEE CPSCoM 2011, Dalian, China, Oct. 19, 2011.
- ◆ **Program Vice Chair and Workshop Co-Chair**, The 4th IEEE International Conference on Cyber, Physical and Social Computing (CPSCoM 2011), Dalian, China, Oct. 19-22, 2011.
- ◆ **Workshop Co-Chair**, The 2nd International Workshop on Modeling Social Media (MSM 2011), co-located with IEEE SocialCom, Boston, USA, Oct. 9, 2011.
- ◆ **Program Committee Member**, The 8th International Conference on Mobile Web and Information Systems (MobiWIS 2011), Niagara Falls, Canada, Sept. 19-21, 2011.
- ◆ **Industrial Liaison Chair**, The 8th International Conference on Ubiquitous Intelligence and Computing (UIC 2011), Banff, Canada, Sept. 2-4, 2011.
- ◆ **Paper Reviewer**, ACM Transactions on Intelligent Systems and Technology (TIST), August 2011 to present.
- ◆ **Program Committee Member**, Track 3 Social Media (Linking People and Things), ACM Hypertext 2011 Conference, Eindhoven, June 6-9, 2011.
- ◆ **Paper Reviewer**, Social Behaviour and Prediction Modeling Conference, Maryland, USA, March 29-31, 2011.
- ◆ **Paper Reviewer**, Computer Supported Cooperative Work (CSCW 2011), Hangzhou, China, March 18-23, 2011.
- ◆ **Committee member**, Interaction and Interface, Multimedia and Computer Graphics Technical Committee, APSIPA Annual Summit and Conference 2010, Biopolis, Singapore, December 14-17, 2010.
- ◆ **Associate Editor**, New Review of Hypermedia and Multimedia, July 2010 to present.
- ◆ **Program Vice-Chair**, 3rd IEEE/ACM International Conference on Cyber, Physical and Social Computing (CPSCoM 2010), Hangzhou, China, Oct. 30-Nov. 1, 2010.
- ◆ **Workshop Co-chair**, The 1st International Workshop on Modeling Social Media, co-located with ACM Hypertext 2010, Toronto, Canada, June 13, 2010.

- ◆ **Demo Co-chair**, ATC 2010 Conference, Xi'an, China, October 26-29, 2010.
- ◆ **Program Committee Member**, IEEE Social Computing 2009, 2010, and 2011 Conference.
- ◆ **Program Committee Member and Publicity Chair**, ACM Hypertext 2010 Conference, Toronto, Canada, June 13-16, 2010.
- ◆ **Paper Reviewer**, IEEE Transactions in Mobile Computing, May 2009 - present.
- ◆ **Paper Reviewer**, Behaviour and Information Technology, January 2009 - present.
- ◆ **Social Tools Committee Member**, *ACM Hypertext 2009*, Nov. 2009.
- ◆ **Conference Blog Creator**, *ACM Hypertext 2008, 2009*.
- ◆ **Paper Reviewer**, *CHI 2009, 2012* (Oct 2008 – present), *New Review of Hypermedia and Multimedia* (Sep 2008 – present), *CHI 2008* and *ACM Computing Review* (Jan 2007 – present), *UbiComp 2008* (May 2008).
- ◆ **Workshop Organizer and Co-chair**, Tagging as a Social Contract Workshop, 2nd Working Conference on Social Computing and Business, *CASCON 2007*, Toronto, Canada, Oct 2007.
- ◆ **Workshop Chair**, Social Computing Best Practices Workshop, 1st Working Conference on Social Computing and Business, *CASCON 2006*, Toronto, Canada, Oct 2006.
- ◆ **Workshop Organizer**, Business of Blogging Workshop, *CASCON 2005*, Toronto, Canada, Oct 2005.
- ◆ **Workshop Organizer**, Content and Application Customization for Pervasive Computing Workshop, *CASCON 2004*, Toronto, Canada, Oct 2004.

TEACHING EXPERIENCE

Adjunct Professor, DePaul University, Chicago, USA

IT223 Data Analysis

June-July 2020, Sept – Nov 2020

DSC323/423 Data Analysis and Regression

Jan – Mar 2019, Sept – Nov 2019

Course Instructor, University of Toronto, Toronto, Canada

APS106 Fundamentals of Computer Programming

Jan – Apr 2008

CSC104 The How and Why of Computing

Jan – Apr 2007

Teaching Assistant, University of Toronto, Mississauga campus, Mississauga, Canada

CSC318 Design of Interactive Computational Media

Sept – Dec 2007

CSC104 The How and Why of Computing

Sept – Dec 2007

Teaching Assistant, University of Toronto, St. George campus, Toronto, Canada

CSC343 Introduction to Databases

Sept – Dec 2006

Computing Insights high school computer camp

Jul 2005

CSC309 Programming on the Web

Jan – Dec 2004, Jan – Dec 2005

AWARDS, PATENTS AND SCHOLARSHIPS

- ◆ 9 patents accepted, 5 patents published, 4 patents granted, BMW Technology Corporation, BMW of North America, BMW Group, Apr. 2015- present
 - ◆ [Pat.17] A. Chin, and J. Tian. Smart dialogue system and method of integrating enriched semantics from personal and contextual learning. WIPO Publication number WO2019214799A1 (Nov 14, 2019)
 - ◆ [Pat.16] Y. Cao, A. Chin, Q. Li, and J. Tian. Method, device, cloud service, system, and computer program for smart parking a connected vehicle. WIPO Publication number WO2019242832A1 (Dec 26, 2019)
 - ◆ [Pat.15] A. Chin, J. Tian, and D. Popiv. Computer-implemented method and data processing system for predicting return of a user to a vehicle. WIPO Publication number WO2020020464A1 (Jan 30, 2020)

- ◆ [Pat.14] J. Tian, Y. Cao, A. Chin, M. Gorelik, J. Hu, and Q. Li. Method and apparatus for determining a travel destination from user generated content. WIPO Publication number WO2019091568A1 (May 16, 2019) and US Patent Publication US20200143269A1 (May 7, 2020)
 - ◆ [Pat.13] A. Chin, K. Nallappasoundararajan, C. Woker, and J. Tian. Method and system for contextually recommending a place of interest to a user and smart check-in. US Patent Publication number US 20170241788A1, Jan. 16, 2018 (granted Jan. 16, 2018)
 - ◆ [Pat.12] A. Chin, K. Nallappasoundararajan, C. Woker, J. Tian, and M. Karg. Method and system for determining an actual point-of-interest based on user activity and environment contexts. US Patent Publication US20170339235A1, Nov. 23, 2017 (granted April 2, 2019)
 - ◆ [Pat.11] J. Tian, K. Nallappasoundararajan, Y. Cao, X. Yang, A. Chin, and C. Woker. Method and system for determining and providing a personalized ETA with privacy preservation. US Patent Publication US 20170314950A1, Nov. 2, 2017 (granted Sept 11, 2018)
 - ◆ [Pat.10] A. Chin, K. Nallappasoundararajan, J. Tian, and W. Tchoi. Method, device, computer program and computer program product for collecting data of a mobile device in a vehicle. Publication number EP3166198A1, May 10, 2017 (granted Aug 14, 2019)
 - ◆ 10 patents accepted, 9 published, Microsoft, Nokia and Nokia Research Center, Aug. 2008 – Sept. 2014
 - ◆ [Pat.9] A. Chin, J. Tian, Y. Cao, F. S. Hunt, and W. Tchoi. A method for discovering network content. Publication number WO 2015051511A1, April 16, 2015.
 - ◆ [Pat.8] J. Tian, A. Chin, Y. Cao, and G. Sun. A method and apparatus for learning user preference with preservation of privacy. Publication number WO 2015006942A1, Jan. 22, 2015.
 - ◆ [Pat.7] A. Chin, and J. Tian. A method and apparatus for acquaintance management and privacy protection. Publication number WO 2014172827A1, Oct. 30, 2014.
 - ◆ [Pat.6] A. Chin, and J. Tian. Method and apparatus for transmitting information. Publication number WO 2014162053 A1, Oct. 9, 2014.
 - ◆ [Pat.5] A. Chin, and J. Tian. Method and apparatus for enriching social media to improve personalized user experience. Publication number WO2014107874 A1, July 17, 2014.
 - ◆ [Pat.4] A. Chin, and J. Tian. Method for web information discovery and user interface. Publication number WO2014082209 A1, June 5, 2014.
 - ◆ [Pat.3] A. Chin, H. Wang, and H. Wang. Method and apparatus for creating an ephemeral social network. US Patent Publication number US 2014/0012918 A1, Jan. 9, 2014.
 - ◆ [Pat.2] H. Wang, A. Chin, H. Brahmakal and A. Aarnio. Method and apparatus for performing an incremental update of a recommendation model. Publication number WO2013131278 A1, Application number PCT/CN2012/072142, Sept. 12, 2013.
 - ◆ [Pat.1] A. Chin, H. Wang, and H. Wang. Method and apparatus for creating an ephemeral social network. Publication number WO2012129771 A1, Application number PCT/CN2011/072234, Oct. 4, 2012.
 - ◆ Elevation to grade of *Senior Member*, *IEEE*, July 26, 2019.
 - ◆ *Nokia Research Center research publications award for China, India and Africa region*, Nokia Research Center, Nov. 16, 2011.
 - ◆ *Best Paper Award*, *IEEE CPSCOM 2011*, Dalian, China, October 2011.
 - ◆ *Best Trial Award*, *Nokia Find & Connect, UIC/ATC 2010 Conference*, October 2010.
 - ◆ *Nokia Workplace Resources Quality Award* for *Nokia Find & Connect*, Nokia, June 2010.
 - ◆ *Nokia Research Award*, Nokia Research Center, March 2009.
 - ◆ *Faculty of Arts and Science Alumni & Friends Graduate Scholarship*, University of Toronto, Jan – Apr 2008.
 - ◆ *University of Toronto Fellowship*, University of Toronto, Sep 2003 – Apr 2006, Jan – Aug 2007.
 - ◆ *Greg Wolfond Computer Science Scholarship*, University of Toronto, Jan – Apr 2006.
 - ◆ *Walter C. Sumner Memorial Fellowship*, University of Toronto, May 2004 – Apr 2006.
 - ◆ *NSERC Industrial Post-graduate Scholarship*, Bell Canada and University of Waterloo, May 2002 – Aug 2003.
 - ◆ *University of Waterloo Research Assistantship*, University of Waterloo, Jan 2002 – Aug 2003.
 - ◆ *Faculty of Engineering Graduate Scholarship*, University of Waterloo, May – Aug 2003.
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