

TEXAS STATE VITA

Please note: For all entries, list most recent items first. Headings without entries may be eliminated, but the heading lettering/numbering should remain consistent with this template.

I. Academic/Professional Background

A. Name: Tzee-Kiu Edwin Chow

Title: Associate Professor

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
Ph. D.	2005	University of South Carolina	Geography	The Role of Scale in Modeling Hydrologic Response
M.S.	2002	University of South Carolina	Geography	Sensitivity of Modeled Peak Discharge to LIDAR Post-Spacing and DEM Resolution
B.A.	2000	University of Texas at Austin	Geography	--

C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Visiting Associate Professor	University of Hong Kong	Aug 2015 – Present
Associate Professor	Texas State University	Aug 2013 – Present
Assistant Professor	Texas State University	Aug 2009 – July 2013
Assistant Professor	University of Michigan – Flint	Aug 2005 – May 2009
Instructor	University of South Carolina	Jan 2004 – May 2004
Teaching Assistant	University of South Carolina	Aug 2004 – May 2005, Aug 2002 – Dec 2003

D. Relevant Professional Experience

<i>Position</i>	<i>Entity</i>	<i>Dates</i>
Research Assistant	Savannah River Ecological Laboratory	Jan 2003 – Dec 2003
Research Assistant	Richland County, South Carolina	Aug 2000 – May 2002
Software Products Intern	Environmental System Research Institute	June 2001 – Aug 2001
GIS Analyst	City of Austin	June 1999 – Aug 1999

E. Other Professional Credentials (licensure, certification, etc.)

II. TEACHING

A. Teaching Honors and Awards:

- 2018 Favorite Professor honor, Alfred H. Nolle Chapter of Alpha Chi National Honor Scholarship Society (Texas State University).
- 2014 Favorite Professor honor, Alfred H. Nolle Chapter of Alpha Chi National Honor Scholarship Society (Texas State University).
- 2013 Favorite Professor honor, Alfred H. Nolle Chapter of Alpha Chi National Honor Scholarship Society (Texas State University).
- 2012 Outstanding Professor Award, Graduate forum, Department of Geography (Texas State University).
- 2010 Favorite Professor honor, Alfred H. Nolle Chapter of Alpha Chi National Honor Scholarship Society (Texas State University).
- 2008 Distinguished Professor Award Nomination, University of Michigan – Flint.
- 2008 Golden Apple Recipient, University of Michigan – Flint.
- 2007 Distinguished Professor Award Nomination, University of Michigan – Flint.
- 2006 Golden Apple Recipient, University of Michigan – Flint.

B. Courses Taught:

<i>Course No.</i>	<i>Course Title</i>	<i>Institution</i>
GEO 7418	Technical Foundation and Methods in GIS	Texas State University
GEO 7399	Dissertation	Texas State University
GEO 7390	Independent Study	Texas State University
GEO 7364	Geocomputation	Texas State University
GEO 7318	GIS and Environmental Geography	Texas State University
GEO 5419	Geographic Information Systems II	Texas State University
GEO 5418/7417	Geographic Information Systems I	Texas State University
GEO 5399	Thesis	Texas State University
GEO 5335	Directed Research	Texas State University
GEO 5301	Multivariate Quantitative Methods	Texas State University
GEO 4393C/4190	GeoProgramming	Texas State University
GEO 3426	Advanced GIS	Texas State University
GEO 2426	Fundamentals of GIS	Texas State University
GEOG 6007	Research Methods in Geography	University of Hong Kong
GEOG 7136	Research Methods and Directed Projects in China Development Studies	University of Hong Kong
GEO 499	Independent Study	University of Michigan – Flint
GEO 498	Research in Geoscience	University of Michigan – Flint
GEO 404	Spatial Analysis Seminar	University of Michigan – Flint
GEO 372	Biogeography	University of Michigan – Flint
GEO 331	Geomorphology and Soils	University of Michigan – Flint

GEO 203	Introduction to Spatial Analysis	University of Michigan – Flint
RPL 470	GIS Practicum	University of Michigan – Flint
RPL 371	GIS II	University of Michigan – Flint
RPL 370	GIS I	University of Michigan – Flint
ENV 289	Web Mapping	University of Michigan – Flint
ENV 100	Introduction to Environmental Science	University of Michigan – Flint
GEOG E363	Introduction to GIS	University of South Carolina

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

<i>Role</i>	<i>Student Name</i>	<i>Degree</i>	<i>Status</i>
Supervisor	David Hickman	M.S.	Spring 2011
Supervisor	Nicholas Ferri	M.A.G.	Spring 2012
Supervisor	Joseph Nicosia	M.A.G.	Summer 2012
Supervisor	Richard Lee	M.A.G.	Fall 2013
Supervisor	Sharmila Partab	M.A.G.	Fall 2013
Supervisor	Khila Dahal	Ph.D.	Spring 2014
Supervisor	Victoria Stengel	M.S.	Spring 2014
Supervisor	Nathaniel Dede-Bamfo	Ph.D.	Spring 2017
Supervisor	Alex Martinez	M.A.G.	Summer 2017
Supervisor	Thomas Pesek	M.A.G.	Spring 2018
Supervisor	Abdullatif Alyaqout	M.S.	Summer 2018
Supervisor	Anna Essington	M.A.G.	Summer 2018
Supervisor	Han Lu	M.A.G.	Fall 2018
Supervisor	Mayowa Lasode	M.A.G.	Summer 2019
Committee member	Jennifer Knowles	M.A.G.	Summer 2011
Committee member	P. Chance Kinnison	M.S.	Spring 2012
Committee member	Robert Landauer	M.A.G.	Spring 2012
Committee member	Ryan Schuermann	M.S.	Summer 2012
Committee member	Paul Crossley	M.S.	Fall 2012
Committee member	Shelby Coder	M.S.	Fall 2012
Committee member	Gregory Mavian	M.A.G.	Fall 2012
Committee member	Gregory Mast	M.S.	Spring 2013
Committee member	Alisha Jimenez	M.S.	Spring 2013
Committee member	Melissa Holmes	M.S.	Spring 2013
Committee member	Eric Clennon	M.A.G.	Spring 2013
Committee member	Guinevere McDaid	M.S.	Summer 2013
Committee member	Justin McCreight	M.S.	Fall 2013
Committee member	Ryan Spencer	M.A.G.	Fall 2013
Committee member	David Nicosia	Ph.D.	Fall 2013
Committee member	Brandon Blackmon	M.A.G.	Spring 2014
Committee member	Yan Lin	Ph.D.	Spring 2014
Committee member	Kanika Verma	Ph.D.	Spring 2014
Committee member	Monique Nava	M.A.G.	Summer 2014
Committee member	Dana Scanes	M.S.	Spring 2015
Committee member	Luke Dailey	M.A.G.	Spring 2015
Committee member	Brad Jackson	M.S.	Spring 2015
Committee member	David Parr	Ph.D.	Summer 2015

Committee member	David Melancon	M.A.G.	Fall 2015
Committee member	Xi Gong	Ph.D.	Spring 2016
Committee member	Ming Leung*	Ph.D.	Fall 2016
Committee member	Pak Hong Ricci Yue*	Ph.D.	Spring 2017
Committee member	John Phillips	M.S.	Spring 2017
Committee member	Jinhee Lee	Ph.D.	Summer 2017
Committee member	David Andresen	M.S.	Fall 2017
Committee member	Ugochukwu Umeokafor	M.A.G.	Spring 2018
Committee member	Mogahid Adam Hussein	M.S.	Spring 2018
Committee member	Ruojing Scholz	Ph.D.	Spring 2018
Committee member	Fangda Lu	M.A.G.	Summer 2018
Supervisor	Mayowa Lasode	Ph.D.	In Progress
Supervisor	Joyce Chien	M.A.G.	In Progress
Supervisor	Melissa Jurens	M.A.G.	In Progress
Supervisor	Neliralda Silva	M.A.G.	In Progress
Committee member	Kumudan Grubh	Ph.D.	ABD
Committee member	Monica Medel	Ph.D.	ABD
Committee member	Yunuen R. Langarica	Ph.D.	ABD
Committee member	David Szpakowski	Ph.D.	ABD
Committee member	Abdullatif Alyaqout	Ph.D.	In Progress
Committee member	Milad Korde	Ph.D.	In Progress
Committee member	Shadi Maleki	Ph.D.	In Progress
Committee member	Brittany Moore	M.S.	In Progress
Committee member	Lucas Chavez	M.S.	In Progress

* *University of Hong Kong*

D. Courses Prepared (Revised) and Curriculum Development:

<i>Course No.</i>	<i>Course Title</i>	<i>Institution</i>
GEO 7364	Geocomputation	Texas State University
GEO 5419	GIS II	Texas State University
GEO 4393C	GeoProgramming	Texas State University
GEO 4310	Regional Field Studies: Geographies of HK	Texas State University
GEO 3333	Geography of China/Japan	Texas State University
GEO 404	Spatial Analysis Seminar	University of Michigan – Flint
RPL 470	GIS Practicum	University of Michigan – Flint

E. Funded External Teaching Grants and Contracts:

2010 Geography Education Material Development – American Association of Geographers (AAG) Companion Multimedia Educational Website for “Understanding the Changing Planet”, AAG (PI: N. T. Huynh; Co-PIs: T. E. Chow, J. Jensen and O. Muniz), \$17,000 (2010-2011).

F. Submitted, but not Funded, External Teaching Grants and Contracts:

G. Funded Internal Teaching Grants and Contracts:

<i>Grant</i>	<i>Granting Institution</i>	<i>Year</i>	<i>Amount</i>
Course Design Fellowship	University of Michigan – Flint	2006	\$3,000
Faculty Development Pedagogical Grant	University of Michigan – Flint	2007	\$1,630

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

I. Other:

2019 “Study Abroad Program: Geographies of HK”, Mini Grant submitted to the Office of Study Abroad at Texas State University, \$2,571.

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

6) **Chow, T. E.**, and Yuan, Y., 2019. GIS APIs. *The Geographic Information Science & Technology Body of Knowledge* (2nd Quarter 2019 Edition), John P. Wilson (Ed.). DOI: 10.22224/gistbok/2019.2.15. [refereed]

5) **Chow, T. E.**, and B. Kar. 2017, “Challenges in Error/Accuracy Assessment for Fused Data - Remote Sensing and GIS”, *Integrating Scale in Remote Sensing and GIS*. Edited by Quattrochi D., E. A. Wentz, N. Lam, and C. Emerson, (CRC Press), pp. 125-156. [refereed]

- 4) Kar, B. and **Chow, T. E.**, 2017, "Issues of and Techniques for Data Fusion and Multi-Scaling of Spatial Data", *Integrating Scale in Remote Sensing and GIS*. Edited by Quattrochi D., E. A. Wentz, N. Lam, and C. Emerson, (CRC Press), pp. 95-124. [refereed]
- 3) **Chow, T. E.**, 2013. "We know who you are and we know where you live": A research agenda of web demographics, *Crowdsourcing Geographic Knowledge. Volunteered Geographic Information (VGI) in Theory and Practice*. Edited by Sui D., S. Elmwood and M. Goodchild, (Dordrecht, Netherland: Springer). pp. 265-285. [refereed]
- 2) **Chow, T. E.**, 2011. "Geography 2.0 – A Mashup Perspective", *Advances in Web-based GIS, Mapping Services and Applications*. Vol. of ISPRS Book Series, edited by S. Dragicevic and S. Li, (Taylor & Francis), pp. 15-36. [refereed]
- 1) Gaines, K. F., **T. E. Chow**, and S. A. Dyer., 2008. "Exposure and Exposure Assessment", *Ecotoxicology*. Vol. [2] of Encyclopedia of Ecology, 5 vols., edited by S. E. Jørgensen and B. D. Fath, (Oxford: Elsevier), pp. 1527-1534. [refereed]

e. Creative Books:

2. Articles

a. Refereed Journal Articles:

[Note: * indicates a student author]

- 23) **Chow, T. E.**, M. Ng, D. W. S. Wong, and C. C. Chan*, In Press, Research challenges of historical GIS analysis: A case study of Hong Kong, *GeoJournal*. <https://doi.org/10.1007/s10708-019-10066-6>.
- 22) Yuan, Y., Y. Lu, **T. E. Chow**, C. Ye, A. Alyaqout, Y. Liu, 2019, Social Media Enabled Smart Cities: Who, Where, When, and What? *Special Issue of Annals of the American Association of Geographers (AAG)*. <https://doi.org/10.1080/24694452.2019.1631144>.
- 21) **Chow, T. E.**, 2019, A crowdsourcing-geocomputational framework of mobile crowd simulation and estimation, *Cartography and Geographic Information Science*. 46(1): 2-20. [doi:10.1080/15230406.2018.1524314](https://doi.org/10.1080/15230406.2018.1524314).
- 20) **Chow, T. E.**, and Martinez*, A., 2018, Site selection of offshore wind farms using fuzzy modeling: A case in Massachusetts, *Northeastern Geographer*. 10: 1-26.
- 19) **Chow, T. E.**, R. T. Schuermann*, A. H. H. Ngu and Khila R. Dahal, 2018, Spatial mining of migration pattern from web demographics, *International Journal of Geographic Information Science*. 32(10): 1977-1998.

- 18) Ng, M., **T. E. Chow** and D. W. S. Wong, 2016, Geographical Dimension of Colonial Justice: Using GIS in Research on Law and History, *Law and History Review*. 34(4): 1027-1045.
- 17) **Chow, T. E.**, N. Dede-Bamfo*, and K.R. Dahal*, 2016, Geographic Disparity of Positional Errors and Matching Rate of Residential Addresses among Geocoding Solutions, *Annals of GIS*. 22(1):29-42.
- 16) Lee*, R. J., and **Chow, T. E.**, 2015, Post-wildfire assessment of vegetation regeneration in Bastrop, Texas using Landsat imagery, *Geographic Information Science & Remote Sensing*. 52(5): 609-626.
- 15) Dahal*, K. R., and **Chow, T. E.**, 2015, Characterization of the neighborhood sensitivity of irregular cellular automata model of urban growth, *International Journal of Geographic Information Science*. 29(3): 475-497.
- 14) Medel*, M., Y. Lu and **T. E. Chow**, 2015, Mexico's drug network: modeling the smuggling routes towards the United States, *Applied Geography*. 60: 240-247.
- 13) Dahal*, K. R., and **Chow, T. E.**, 2014, An Agent-Integrated Irregular Automata model of urban land use dynamics, *International Journal of Geographic Information Science*. 28(11): 2281-2303.
- 12) Dahal*, K. R., and **Chow, T. E.**, 2014, Parcel-Divider: a GIS toolset for automated partitioning of urban lands, *Environmental Modeling and Software*. 55: 222-234.
- 11) Hickman*, D., and **Chow, T. E.**, 2012, Development of a composite model of quality of life: a case study in Austin, Texas. *Geographic Information Science and Remote Sensing*. 49(6): 802-821.
- 10) Duarte*, A., D. M. Wolcott*, **T. E. Chow**, and M. A. Ricca, 2012, Identifying and prioritizing recovery sites for the endangered Aleutian shield fern, *Journal of Fish and Wildlife Management*. 3(2): 303-310.
- 9) Tian*, N., P. Goovaerts, F. B. Zhan, **T. E. Chow**, and J. G. Wilson, 2012. Identifying risk factors for disparities in breast cancer mortality among African American and Hispanic women, *Women's Health Issues*. 22(3): 267-276.
- 8) **Chow, T. E.**, Y. Lin*, N.T. Huynh, and J. Davis, 2012. Using Web Demographics to Model Population Change of Vietnamese-Americans in Texas between 2000-2009, *GeoJournal*.77(1): 119-134.
- 7) Wan*, N., F. B. Zhan, B. Zou and **T. E. Chow**, 2011. A relative spatial access assessment approach for analyzing potential spatial access to colorectal cancer services in Texas, *Applied Geography*. 32(2): 291-299.
- 6) **Chow, T. E.**, Y. Lin*, and W. D. Chan. 2011, The Development of a Web-based Demographic Data Extraction Tool for Population Monitoring, *Transactions in GIS*. 15(4): 479-494.

- 5) Slade, R. M. Jr., and **Chow, T. E.**, 2011, Statistical relations of precipitation and stream runoff for El Niño and La Niña periods, Texas Hill Country, *Texas Water Journal*. 2(1): 1-22.
- 4) **Chow, T. E.**, and Sadler*, R., 2010. The consensus of local stakeholders and outside experts in suitability modeling for future camp development, *Landscape and Urban Planning*, 94:9-19.
- 3) **Chow, T. E.**, and Hodgson, M.E., 2009. Effects of Lidar post-spacing and DEM resolution to mean slope estimation, *International Journal of Geographic Information Science*. 23(10):1277-1295.
- 2) **Chow, T. E.**, 2008. The potential of Maps APIs for Internet GIS, *Transactions in GIS*. 12(2): 179-191.
- 1) **Chow, T. E.**, K.F. Gaines, M.E. Hodgson, and M.A. Wilson, 2005. Habitat and Exposure Modeling of Raccoon for Ecological Risk Assessment: A Case Study in Savannah River Site, *Ecological Modelling*. 189: 151-167.

b. Non-refereed Articles:

- 10) **Chow, T. E.**, 2019. Hong Kong is now a big social experiment (Chinese title: 如今的香港仿如一個龐大的社會實驗, *The StandNews*. July 29, 2019. Web access: <https://thestandnews.com/politics/如今的香港仿如一個龐大的社會實驗>, published in Chinese.
- 9) **Chow, T. E.**, 2019. The revelation and reflection of June 9th Rally Attendance (Chinese title: 6.9 遊行人數的啟示和反思, *The StandNews*. June 13, 2019. Web access: <https://thestandnews.com/politics/遊行人數的啟示和反思>, published in Chinese.
- 8) **Chow, T. E.**, 2019. The attendance of 30th anniversary June 4th Candlelight Vigil – the forbidden numbers (Chinese title: 六四 30 周年集會人數 – 禁忌的數字, *The StandNews*. June 5, 2019. Web access: <https://thestandnews.com/politics/六四-30-周年集會人數-禁忌的數字/>, published in Chinese.
- 7) **Chow, T. E.**, 2019. How to count people in a rally protest? (Chinese title: 遊行人數點算好?), *The StandNews*. May 8, 2019. Web access: <https://thestandnews.com/society/遊行人數點算好/>, published in Chinese.
- 6) **Chow, T. E.**, 2018. The accelerating polarization of head count in June 4th Candle Vigil (Chinese title: 六四集會人數統計兩極化加劇), *The StandNews*. June 11, 2018. Web access: <https://thestandnews.com/society/六四集會人數統計兩極化加劇/>, published in Chinese.
- 5) **Chow, T. E.**, 2017. The mystery of July 1st Rally attendance (Chinese title: 七一遊行人數之謎), *The StandNews*. July 26, 2017. Web access: <https://thestandnews.com/politics/七一遊行人數之謎/>, published in Chinese.
- 4) **Chow, T. E.**, 2017. Why should I go there and I count? (Chinese title: 點解要自己遊行自己數?), *The StandNews*. July 1, 2017. Web access: <https://www.thestandnews.com/politics/點解要自己遊行自己數/>, published in Chinese.
- 3) **Chow, T. E.**, 2017. I go there I count (Chinese title: 自己遊行自己數), *The StandNews*. June 25, 2017. Web access: <https://www.thestandnews.com/society/自己遊行自己數/>, published in Chinese.
- 2) **Chow, T. E.**, 2017. Population estimation of June 4th Candle Vigil and alternative facts (Chinese title: 六四集會人數統計與另類事實), *Ming Pao Press*. June 17, 2017. Web access: https://m.mingpao.com/pns/dailynews/web_tc/article/20170617/s00012/1497635598032, published in Chinese.

- 1) **Chow, T. E.**, 2016. Population estimation of June 4th Candle Vigil and reflection (Chinese title: 六四燭光晚會出席人數統計及反思), *Ming Pao Press*. June 13, 2016. Web access: http://news.mingpao.com/ins/instantnews/web_tc/article/20160614/s00022/1465864915847, published in Chinese.

3. Conference Proceedings

a. Refereed Conference Proceedings:

[Note: * indicates a student author]

- 7) **Chow, T. E.**, 2019. Estimating the crowd size of a rally by crowdsourcing-geocomputation. In *Abstracts of the International Cartographic Association*, 1, 46, <https://doi.org/10.5194/ica-abs-1-46-2019>.
- 6) **Chow, T. E.**, 2018. When GeoAI meets the crowd. In *GeoAI'18: 2nd ACM SIGSPATIAL Workshop on AI for Geographic Knowledge Discovery*, November 6, Seattle, WA, pp. 52-53. [doi:10.1145/3281548.3281551](https://doi.org/10.1145/3281548.3281551)
- 5) Schuermann*, R. T., and **Chow, T. E.**, 2014. Geovisualization of local and regional migration using web demographics, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. XL-2: 93-97.
- 4) Clennon*, E., R. D. Blanchard and **T. E. Chow**, 2013, Business clustering in knowledge-based industries in the Austin-Round Rock, Texas, metropolitan statistical area, *Papers in Applied Geography*. 36: 367-376.
- 3) **Chow, T. E.**, Anne H. H. Ngu, Yan Lin*, Clark Phillips*, and Stan Thornhill*, 2012. Record linkage of web demographics as a GeoComputation challenge, Invited position paper in GIScience 2012 Workshop on Role of Volunteered Geographic Information: Quality and Credibility. Columbus, OH: <http://www.ornl.gov/sci/gist/workshops/2012/documents/Chow,%20Tze%20Kiu%20-%20Paper.pdf>
- 2) **Chow, T. E.**, 2011. VGI-enabled 4D GIS, Invited position papers for *Specialist Meeting in Future Direction of Spatial Demography*. (Acceptance rate: 24/78 = 30.7%) <http://ncgia.ucsb.edu/projects/spatial-demography/docs/Chow-position.pdf>
- 1) **Chow, T. E.**, 2010. An Assessment of Hydrologic Enforcement Methods on Various Drainage Features, *Proceedings of the Sixth International Conference of Geographic Information Science*. http://www.giscience2010.org/pdfs/paper_177.pdf

b. Non-refereed:

4. Abstracts:

5. Reports:

- 1) **Chow, T.E.**, 2001. "User Manual of Curve Number Script in Hydrologic Modeling", Stormwater Services in the Department of Public Works, Richland County, South Carolina.

6. Book Reviews:

7. Other:

Advisor, Hickman, D. T., 2010. Assessing urban walkability: a suitability model rating ease of travel with limited reliance upon personal automobile travel in Austin, Texas, 2nd Place Winner, *Applied Geography Conference 2010*.
<http://applied.geog.kent.edu/Winners2010.htm>

Advisor, Sadler, R., 2007. Using suitability analysis to evaluate suitable conservation areas and future development at Camp Tapico, Meeting of Minds Undergraduate Research Conference XV - *Journal of Undergraduate Research*. 9: 286-292.

B. Works not in Print

1. Papers Presented at Professional Meetings:

[Note: * indicates a student author]

- 48) **Chow, T. E.**, 2019. Estimating the crowd size of a rally by crowdsourcing-geocomputation. In *International Cartographic Conference*, July 15-20, Tokyo, Japan.
- 47) **Chow, T. E.**, 2019. A Panelist in "Social Sensing and Big Data Computing for Disaster Management", *Annual Conference of Association of American Geographers*, April 3-7, Washington, D.C.
- 46) Yuan, Y., Y. Lu, Y. Liu and **T.E. Chow**, 2019. The missing parts from social media enabled smart city: Who, where, when, and what, *Annual Conference of Association of American Geographers*, April 3-7, Washington, D.C.
- 45) **Chow, T. E.**, and Alyaqout*, A., 2019. Exploring the locational accuracy of social media during Hurricane Harvey, *Annual Conference of Association of American Geographers*, April 3-7, Washington, D.C.
- 44) **Chow, T. E.**, 2018. When GeoAI meets the crowd, *GeoAI'18: 2nd ACM SIGSPATIAL Workshop on AI for Geographic Knowledge Discovery*, November 6, Seattle, WA.
- 43) **Chow, T. E.**, 2018. Simulate Crowd Movement and Behaviors in a Rally, *International Conference of Geoinformatics*, June 28-30, Kunming, Yunnan, China.

- 42) **Chow, T. E.**, 2018. A crowdsourcing-geocomputational framework of mobile crowd simulation, *University Consortium of Geographic Information Science Symposium*, May 22-24, Madison, WI.
- 41) **T. E. Chow**, 2018. Small Area Population Modeling, *Annual Conference of Association of American Geographers*, April 10-14, New Orleans, LA.
- 40) Kar, B., **T. E. Chow**, and X. Liu, 2018. Analyzing tweets to understand spatio-temporal variability of situation awareness information, *Annual Conference of Association of American Geographers*, April 10-14, New Orleans, LA.
- 39) **Chow, T. E.**, 2017. Discovery of Small Area Population through Web Demographics, *Population Association of Japan*, June 11-12, Sendai, Japan.
- 38) **Chow, T. E.**, 2017. A Crowdsourcing Approach to Estimate a Mobile Population, *Annual Conference of Association of American Geographers*, April 6-10, Boston, MA.
- 37) **Chow, T. E.**, M. Ng, C. Chan, and D.W.S. Wong, 2016. Linking Past to Present: Reconstructing the Historical Geographies of Colonial Hong Kong, *Population Association of Japan*, June 11-12, Kashiwa, Japan.
- 36) **Chow, T. E.**, 2015. Evaluation of Tobler's and Zipf's Laws in Web Demographics Analytics, *International Conference of Geoinformatics*, June 18-20, Wuhan, China.
- 35) **Chow, T. E.**, R. T. Schuermann, A. H. H. Ngu and C. Phillips, 2015. Relevance of Tobler's and Zipf's Laws to Web Demographics? *Annual Conference of Association of American Geographers*, April 21-26, Chicago, IL.
- 34) N. Dede-Bamfo, and **Chow, T. E.**, 2015. Exploring Post-Disaster Tweets for Vulnerability Assessment, *Annual Meeting of Association of American Geographers*, April 21-26, Chicago, IL.
- 33) R. T. Schuermann, and **Chow, T. E.**, 2014. Geovisualization of local and regional migration using web-mined demographics, *ISPRS TCII/IGU Joint International Conference on Geospatial Theory, Processing, Modeling and Applications*, October 5-8, Toronto, ON.
- 32) **Chow, T. E.**, and Schuermann, R. T., 2014. Spatio-temporal characteristics of web demographics for record linkage, *University Consortium of Geographic Information Science 2014 Symposium*, May 19-21, Pasadena, CA.
- 31) Gong, X., **T. E. Chow**, and F. B. Zhan, 2014. The Importance of "Space" in Strategies of Team Sports: An Agent-based Modeling Approach, *Annual Meeting of Association of American Geographers*, April 8-12, Tampa, FL.
- 30) **Chow, T. E.**, and Schuermann, R. T., 2014. Spatiotemporal mining of migration patterns from web demographics, *Annual Meeting of Association of American Geographers*, April 8-12, Tampa, FL.

- 29) **Chow, T. E.**, N. Dede-Bamfo and K. Dahal, 2013. Quality Assessment of Internet/Desktop Geocoding Services, 8th International Symposium on Spatial Data Quality, May 30 - June 1, Hong Kong SAR, China.
- 28) **Chow, T. E.**, and Dahal, K., 2013. Web, the People, *Annual Meeting of Association of American Geographers*, April 9-13, Los Angeles, CA.
- 27) **Chow, T. E.**, J. Jensen, K. Ridenour, K. Crosthwaite, S. Rissel, L. Temple, 2012. Fuel Model Characterization of Central Texas Ecosystem for Wildfire Modeling, *Annual Meeting of Association of American Geographers*, February 24, New York, NY.
- 26) **Chow, T. E.**, 2011. Modeling Fire Growth Simulation in Grassland Ecosystem, *International Conference of Geoinformatics*, June 23-26, Shanghai, China.
- 25) **Chow, T. E.**, Dede-Bamfo*, N., and Dahal*, K. R., 2011. Characteristics of Geographic Bias in Address Matching, *Annual Meeting of Association of American Geographers*, April 12-17, Seattle, WA.
- 24) **Chow, T. E.**, 2011. Progress Update and Research Agenda of Census 2.0, AAG 2011 *Volunteered Geographic Information Pre-conference*, April 11, 2011, Seattle, WA
- 23) **Chow, T. E.**, 2010. An Assessment of Hydrologic Enforcement Methods on Various Drainage Features, *Sixth International Conference of Geographic Information Science*, September 14-17, Zurich, Switzerland.
- 22) **Chow, T. E.**, N. Heger*, X. Meng*, J. Jensen and K. Ridenour, 2010. "Sensitivity of Fire Growth Simulation to Lidar-derived Elevation and Fuel Maps", *International Conference of Geoinformatics*, June 18-20, Beijing, China.
- 21) **Chow, T. E.**, 2010. "Census 2.0", *Annual Meeting of Association of American Geographers*, April 14-19, Washington D.C.
- 20) **Chow, T. E.**, 2010. "How Does Hydrologic Enforcement Affect Lidar-derived DEM?", *International Lidar Mapping Forum*, March 3-5, Denver, CO.
- 19) **Chow, T. E.**, and Sadler*, R., 2009. "Uncertainty of Expert Knowledge in Suitability Modeling", *Annual Meeting of Association of American Geographers*, March 22-27, Las Vegas, NV.
- 18) **Chow, T. E.**, and Wolverton*, M., 2009. "Assessment of Hydrologic Enforcement in Lidar-derived DEM", *Annual Meeting of American Society for Photogrammetry & Remote Sensing*, March 9-13, Baltimore, MD.
- 17) **Chow, T. E.**, and Sadler*, R., 2008. "Integration of Expert Knowledge in GIS-based Land Use Suitability Analysis", *Annual Meeting of International Conference of Geographic Information Systems*, July 2-5, Istanbul, Turkey.

- 16) **Chow, T. E.**, and Sadler*, R., 2008. "Positional Error Assessment in Spatial Database", *Annual Meeting of American Society for Photogrammetry & Remote Sensing*, April 29-May 2, Portland, OR.
- 15) **Chow, T. E.**, 2008. "Linking GIS to Stormwater Modeling", *Annual Meeting of Association of American Geographers*, April 15-19, Boston, MA.
- 14) **Chow, T. E.**, 2007. "Maps APIs for Internet GIS Applications", *Annual Meeting of Association of American Geographers*, April 17-22, San Francisco, CA.
- 13) **Chow, T. E.**, and Kuptz*, R.A., 2006. "Accuracy Assessment of Contour-derived Elevation and Terrain Slope", *Fall Specialty Meeting of American Society for Photogrammetry & Remote Sensing*, November 6-10, San Antonio, TX.
- 12) **Chow, T. E.**, 2006. "Scale Dependence of Rainfall-Runoff Model", *Annual Meeting of Association of American Geographers*, March 7-11, Chicago, IL.
- 11) **Chow, T. E.**, 2005. "A Geospatial Tools for Stormwater Modeling and Management", *Annual Meeting of AWWA*, November 7-10, Seattle, WA.
- 10) Gaines, K.F., **Chow, T. E.**, M.A. Wilson, and M. E. Hodgson, 2005. "A spatially explicit exposure model to estimate contaminant exposure in wildlife", *The Wildlife Society Twelfth Annual Conference*, Sept. 25-29, Madison, WI.
- 9) **Chow, T. E.**, 2005. "The Effect of Scale in Modeling Hydrologic Response", *Young Scholar Summit of International Association of Chinese Professional of Geographic Information System*, June 24- July 4, Nanchang and Wuhan, China.
- 8) **Chow, T. E.**, and Hodgson, M.E., 2005. "A Sensitivity Analysis of Post-spacing and Lidar-Derived DEM on Various Stormwater Modeling Approaches", *Annual Meeting of American Society for Photogrammetry & Remote Sensing*, March 7-11, Baltimore, MA.
- 7) **Chow, T. E.**, K.F. Gaines, M.E. Hodgson, and M.D. Wilson, 2004. "Habitat and Exposure Modeling for Ecological Risk Assessment", *Annual Meeting of American Society for Photogrammetry & Remote Sensing*, May 23-28, Denver, CO.
- 6) **Chow, T. E.**, and M.E. Hodgson, 2004. "Scale Effect on Mean Slope Estimation with Airborne Laser Scanning", *Annual Meeting of Association of American Geographers*, March 14-19, Philadelphia, PA.
- 5) **Chow, T. E.**, and M.E. Hodgson, 2003. "Effects of Lidar Post-spacing and DEM Cell Size on Slope Estimation for Hydrologic Modeling", *Poster Presentation at Annual Meeting of American Society for Photogrammetry & Remote Sensing*, May 5-8, Anchorage, AK.
- 4) **Chow, T. E.**, C.M. Anchor, M.E. Hodgson, and P. Bresnahan, 2002. "Stormwater Modeling in Richland County, South Carolina", *Environmental System Research Institute (ESRI) International Users Conference*, July 8-12, San Diego, CA.

- 3) **Chow, T. E.**, M.E. Hodgson, C.M. Anchor, and P. Bresnahan, 2002. “A Sensitivity Analysis of Modeled Peak Flow from Varying DEM Spatial Resolutions”, *Annual Meeting of American Society for Photogrammetry & Remote Sensing*, April 19-26, Washington D.C.
- 2) **Chow, T. E.**, M.E. Hodgson, C.M. Anchor, and P. Bresnahan, 2002. “A Web-Based Geographic Information System Application for Hydrology”, *Annual Meeting of Association of American Geographers*, March 19-23, Los Angeles, CA.
- 1) **Chow, T. E.**, 2001. “Cholera Modeling in Peru 1991”, Poster Presentation at the Summer Assembly of University Consortium of Geographic Information Science, June 20-24, Buffalo, NY.

2. Invited Talks, Lectures, and Presentations:

- 24) **Chow, T. E.**, 2018. “Network & 3D Analysis”, Urban GIS (CRP 386), School of Architecture, University of Texas at Austin, November 12.
- 23) **Chow, T. E.**, 2018. “Data Queries”, GIS in Planning (CRP 386), School of Architecture, University of Texas at Austin, June 20.
- 22) **Chow, T. E.**, 2017. “How many people were there? Case studies of June 4th and July 1st Demonstrations in Hong Kong”, Centre for Comparative and Public Law, University of Hong Kong, June 8.
- 21) **Chow, T. E.**, 2016. “Estimating People on the Move? HK Protest & Beyond”, Department of Social Work and Social Administration, Centre for Suicide Research and Prevention, University of Hong Kong, May 23.
- 20) **Chow, T. E.**, 2016. “Challenges and Opportunities of Population Research in Big Data Era”, Centre for Comparative and Public Law, University of Hong Kong, May 19.
- 19) **Chow, T. E.**, 2013. “Web-enabled Geography?”, Department of Geography, Texas A&M University, November 1.
- 18) **Chow, T. E.**, 2010. “Applications and Uncertainties of Lidar-derived Digital Elevation Model”, Institute of Space and Earth Information Science, Chinese University of Hong Kong, July 5.
- 17) **Chow, T. E.**, 2010. “What Does the Web have to Do with Counting?”, Summer Summit, Statistical Research Division – U.S. Census Bureau, Washington, D.C., May 27.
- 16) **Chow, T. E.**, 2009. “What Does Geography 2.0 Mean to Geographers?”, GIScience Brown Bag Talk in Department of Geography, Texas State University, October 23.
- 15) **Chow, T. E.**, 2008. “Unknown Unknowns in Geographic Information Science”, Department of Geography, Texas State University, December 5.

- 14) **Chow, T. E.**, 2008. University of Michigan – Flint, Department of Public Administration, Flint, MI.
- 13) **Chow, T. E.**, 2008. “Global Positioning System”, Grand Blanc Community Schools, 3rd and 4th graders, Fenton, MI.
- 12) **Chow, T. E.**, 2007. University of Michigan – Flint, Department of Public Administration, Flint, MI.
- 11) **Chow, T. E.**, 2006. University of Michigan – Flint, Department of Public Administration, Flint, MI.
- 10) **Chow, T. E.**, 2005. Nanchang Normal University, Young Scholar Summit of the International Association of Chinese Professional of Geographic Information System, Nanchang, China.
- 9) **Chow, T. E.**, 2005. University of Michigan – Flint, Department of Earth and Resource Science, Flint, MI.
- 8) **Chow, T. E.**, 2005. Central Michigan University, Department of Geography, Mount Pleasant, MI.
- 7) **Chow, T. E.**, 2005. University of Texas - Dallas, Department of Geology, Dallas, TX.
- 6) **Chow, T. E.**, 2004. University of South Carolina, Department of Civil Engineering, Columbia, SC.
- 5) **Chow, T. E.**, 2004. University of Southern Mississippi, Department of Geography, Hattiesburg, MS.
- 4) **Chow, T. E.**, 2004. Mississippi State University, Department of Geoscience, Hattiesburg, MS.
- 3) **Chow, T. E.**, 2004. University of Denver, Department of Geography, Denver, CO.
- 1) J.R. Jensen, J.A. Tullis, B.C. Hadley, **Chow, T. E.**, 2004. NASA, Earth Science Enterprise (ESE), Stennis Space Center, MS.
- 1) **Chow, T. E.**, 2003. University of South Carolina, Department of Mathematics, Columbia, SC.

3. Consultancies:

- Chow, T. E.**, and Savelyev, A., 2017. Twitter Heat Map of Harvey 2017, Texas State University, Interactive Mapping. <https://harveymap.000webhostapp.com/index-leaflet.html>.

Chow, T. E., 2006. University Outreach, University of Michigan – Flint, Interactive Mapping.
<http://www.geneseelandnetwork.org/sprawl/map/>

4. Workshops:

5. Other (Media Coverage):

- 16) New York Times, July 3 2019, How A.I. Helped Improve Crowd Counting in Hong Kong Protests, <https://www.nytimes.com/interactive/2019/07/03/world/asia/hong-kong-protest-crowd-ai.html>
- 15) MingPao News, July 2 2019, 人眼加AI點算 七一遊行錄26.5萬人 約民陣數字一半 多警方數字四成 (translated title: The manual and AI approach counted the July 1st Rally with 265k, about half of the organizer and more than 40% than the police figure), http://www.mingpaocanada.com/TOR/htm/News/20190702/hk-gae1_r.htm
- 14) MingPao News, July 2 2019, 急設駱克道點算位 AI計少半小時 (translated title: Adding a new monitoring station at Lockhart Rd: AI counted 30 minutes after a new location), <https://news.mingpao.com/pns/%E8%A6%81%E8%81%9E/article/20190702/s00001/1562006760861/%E6%80%A5%E8%A8%AD%E9%A7%B1%E5%85%8B%E9%81%93%E9%BB%9E%E7%AE%97%E4%BD%8D-ai%E8%A8%88%E5%B0%91%E5%8D%8A%E5%B0%8F%E6%99%82>
- 13) SingTao News, July 2 2019, 七一遊行 學者估算26.5萬人 (translated title: July 1st Rally count: Scholars estimated 265k), <https://www.singtaousa.com/home/13-%E9%A6%99%E6%B8%AF/2404402-%E4%B8%83%E4%B8%80%E9%81%8A%E8%A1%8C%E2%80%82%E5%AD%B8%E8%80%85%E4%BC%B0%E7%AE%9726.5%E8%90%AC%E4%BA%BA/?fromG=1>
- 12) Super Media HK, July 2 2019, 港大AI團隊公布初步人數：26.5萬 (translated title: HKU and AI Team released preliminary July 1st Rally count: 265k), <http://www.supermedia.hk/34393/%E6%B8%AF%E5%A4%A7ai%E5%9C%98%E9%9A%A8%E5%85%AC%E5%B8%83%E5%88%9D%E6%AD%A5%E4%BA%BA%E6%95%B8%EF%BC%9A26-5%E8%90%AC/>
- 11) MingPao News, July 1 2019, 港大AI團隊公布初步人數：26.5萬 (translated title: Preliminary count by the HKU and AI Team: 265,000), <https://news.mingpao.com/ins/%E6%B8%AF%E8%81%9E/article/20190701/s00001/1561978210430/%E3%80%90%E4%B8%83%E4%B8%80%E9%81%8A%E8%A1%8C%E3%80%91%E6%B8%AF%E5%A4%A7ai%E5%9C%98%E9%9A%A8%E5%85%AC%E5%B8%83%E5%88%9D%E6%AD%A5%E4%BA%BA%E6%95%B8-26-5%E8%90%AC>
- 10) HK01 News, July 1 2019, 學者邀市民「自己遊行自己數」 以AI技術計算人次 (translated title: Scholars launched a citizen-science project “I Go There I Count” with AI technology to count rally),

<https://www.hk01.com/18%E5%8D%80%E6%96%B0%E8%81%9E/346856/%E4%B8%83%E4%B8%80%E9%81%8A%E8%A1%8C-%E5%AD%B8%E8%80%85%E9%82%80%E5%B8%82%E6%B0%91-%E8%87%AA%E5%B7%B1%E9%81%8A%E8%A1%8C%E8%87%AA%E5%B7%B1%E6%95%B8-%E4%BB%A5ai%E6%8A%80%E8%A1%93%E8%A8%88%E7%AE%97%E4%BA%BA%E6%AC%A1>

- 9) STHeadline News, July 1 2019, 港美學者統計遊行人數26.5萬 雷鼎鳴估算21.5萬人 (translated title: Scholars from HK and US estimated 265k; Lui estimated 215k),
<https://hd.stheadline.com/news/realtime/hk/1534828/%E5%8D%B3%E6%99%82-%E6%B8%AF%E8%81%9E-%E4%B8%83%E4%B8%80%E5%9B%9E%E6%AD%B8-%E6%B8%AF%E7%BE%8E%E5%AD%B8%E8%80%85%E7%B5%B1%E8%A8%88%E9%81%8A%E8%A1%8C%E4%BA%BA%E6%95%B826-5%E8%90%AC-%E9%9B%B7%E9%BC%8E%E9%B3%B4%E4%BC%B0%E7%AE%9721-5%E8%90%AC%E4%BA%BA>
- 8) HKET, July 1 2019, 民陣公布七一遊行55萬人 警方指高峰期人數19萬 (translated title: Organizers announced an attendance of 550k for July 1st Rally; the Police estimated a peak of 190k),
<https://topick.hket.com/article/2388911/%E3%80%90%E5%8F%8D%E9%80%81%E4%B8%AD%E3%80%91%E6%B0%91%E9%99%A3%E5%85%AC%E5%B8%83%E4%B8%83%E4%B8%80%E9%81%8A%E8%A1%8C55%E8%90%AC%E4%BA%BA%E3%80%80%E8%AD%A6%E6%96%B9%E6%8C%87%E9%AB%98%E5%B3%B0%E6%9C%9F%E4%BA%BA%E6%95%B819%E8%90%AC>
- 7) Apple Daily News, July 1 2019, 學者、AI公司合作計遊行人數 (translated title: Scholars and AI company collaborated to count rally),
<https://hk.news.appledaily.com/local/daily/article/20190701/20717581>
- 6) Bastille Post, July 1 2019, 雷鼎鳴估算21.5萬人參與七一遊行 港美學者指有26.5萬 (translated title: Lui estimated 215k attending the July 1st Rally; Scholars from HK and US estimated 265k, <https://www.bastillepost.com/hongkong/article/4646717-%E3%80%90%E4%B8%83%E4%B8%80%E5%9B%9E%E6%AD%B8%E3%80%91%E6%B8%AF%E7%BE%8E%E5%AD%B8%E8%80%85%E7%B5%B1%E8%A8%88%E9%81%8A%E8%A1%8C%E4%BA%BA%E6%95%B826-5%E8%90%AC-%E9%9B%B7%E9%BC%8E%E9%B3%B4%E4%BC%B0?variant=zh-tw?fromG=1>
- 5) i-Cable News, June 30 2019, 港大及美學者合作算七一遊行人數(translated title: Scholars from Hong Kong University and U.S. collaborated to count July 1st Rally),
<http://cablenews.i-cable.com/ci/videopage/news/551647/%E5%8D%B3%E6%99%82%E6%96%B0%E8%81%9E/%E6%B8%AF%E5%A4%A7%E5%8F%8A%E7%BE%8E%E5%AD%B8%E8%80%85%E5%90%88%E4%BD%9C%E7%AE%97%E4%B8%83%E4%B8%80%E9%81%8A%E8%A1%8C%E4%BA%BA%E6%95%B8>

- 4) MingPao News, June 30 2019, 特稿：港大得州大學學者與科技公司合作 人眼AI相輔
七一遊行科學點人數(translated title: Scholars from Hong Kong University and Texas State University collaborated with a tech company to conduct July 1st Rally scientifically with manual and AI approaches),
http://www.mingpaocanada.com/Tor/htm/News/20190630/HK-gbc1_r.htm
- 3) HK01 News, June 30 2019, 港大學者與科技公司合作 AI技術助點算遊行人數(translated title: Scholars collaborated with a tech company to count rally with AI),
<https://www.hk01.com/%E7%A4%BE%E6%9C%83%E6%96%B0%E8%81%9E/346518/71%E9%81%8A%E8%A1%8C-%E6%B8%AF%E5%A4%A7%E5%AD%B8%E8%80%85%E8%88%87%E7%A7%91%E6%8A%80%E5%85%AC%E5%8F%B8%E5%90%88%E4%BD%9C-ai%E6%8A%80%E8%A1%93%E5%8A%A9%E9%BB%9E%E7%AE%97%E9%81%8A%E8%A1%8C%E4%BA%BA%E6%95%B8>
- 2) Apple Daily News, June 30 2019, 以人工智能實地計算 學者新方法統計遊行人數增可信性 (translated title: Use AI to count rally in the field – a scholastic new approach to count rally more reliably), 以人工智能實地計算 學者新方法統計遊行人數增可信性,
<https://hk.news.appledaily.com/local/realtime/article/20190630/59774228>
- 1) Boxun News, June 30 2019, 港大将与AI公司合作清点游行人数 (translated title: Scholars collaborated with an AI company to count rally),
<https://news.boxun.com/news/gb/finance/2019/06/201906302023.shtml>

6. Works in Preparation:

[Note: * indicates a student author]

Reygadas*, Y., J. L.R. Jensen, G. M. Gretchen, N. Currit, **T. E. Chow**, In review, Assessing the relationship between vegetation greenness and surface temperature through Granger causality in temperate and tropical forests, Submitted to *International Journal of Remote Sensing*.

Suh, T., and **Chow, T. E.**, In review, Prescriptive Analytics Using Web Demographics: An Application to Ethnic Marketing and Proactive Market-Driven Segmentation, Submitted to *Journal of the Academy of Marketing Science*.

Kar, B., **T. E. Chow**, N. Dede-Bamfo and X. Liu, In review, Analyzing Tweets to Understand Spatio-Temporal Variability of Situational Awareness Information, Submitted to the *ACM Proceedings - GeoAI: AI and Deep Learning for Geographic Knowledge Discovery*.

Alyaqout*, A., **T. E. Chow**, and A. Savelyev, In Preparation, Assessing the quality of Volunteered Geographic Information (VGI) for flood monitoring. A case study of Hurricane Harvey in Harris County, Texas, to be submitted to *Natural Hazards*.

C. Grants and Contracts

1. Funded External Grants and Contracts:

[Note: Chow was the sole Principle Investigator (PI) unless otherwise noted]

2015-2017 – “GRF: Mapping Colonial Justice of Early 20th Century Hong Kong (1900-1941): A Historical GIS Study”, Hong Kong Research Grants Council, Senior Personnel (P.I., Ng), \$125,511, 01/01/2015 – 12/31/2017.

2014-2016 – “RAPID: Geospatial Resources, Materials and Tools for STEM Teacher Preparation”, National Science Foundation (NSF), Senior Personnel (P.I., Solem), \$200,000, 09/01/2014 – 03/31/2016 (Award No. BCS-1451203).

2010-2011 – “What Does the Web Has to Do with Census?”, U.S. Bureau of the Census, \$1,000.

2. Funded Internal Grants and Contracts:

[Note: Chow was the sole Principle Investigator (PI) unless otherwise noted]

2019 “Get the Big Pictures: Flood Analytics Using Big Multimedia Data”, Multidisciplinary Internal Research Grant (MIRG), Texas State University, \$29,916.

2013 “Exploring the Post-Disaster Tweets for Damage Assessment”, Research Enhancement Program, Texas State University, \$8,000.

2008 “Putting UM-Flint onto the Map?”, Research and Creative Activity Award: Phase II Funding, University of Michigan – Flint, \$500.

2008 “Putting UM-Flint onto the Map?”, Research and Creative Activity Award, University of Michigan – Flint, \$8,895.

2008 Faculty International Travel Awards, University of Michigan – Flint, \$2,000.

2007 “Towards Creating a Digital UM-Flint”, Research and Creative Activity Award, University of Michigan – Flint. \$12,245.

2006 “Accuracy Assessment of Contour-derived Elevation and Terrain Slope”, Research and Creative Activity Award, University of Michigan – Flint, \$18,533.

3. Student Internal/External Grants and Contracts:

Advisor, Dede-Bamfo, N., 2012-2013. Research travel grant, West African Research Centre (WARC), \$3,000.

D. Fellowships, Awards, Honors:

2012 Dean’s Award for Excellence in Scholarly/Creative Activities, College of Liberal Arts, Texas State University.

- 2011 Travel Grant, Center for Spatial Studies, Department of Geography, University of California at Santa Barbara, \$600. How Does Hydrologic Enforcement Affect Lidar-derived DEM
- 2005 Travel Grant, Chinese Professional in Geographic Information Systems, \$800.
- 2003 Honorable mention of Lovingood Award, University of South Carolina.

IV. SERVICE

A. University:

- Spring 2017 Member, 2017-2023 University Plan Read-Across Committee, Texas State University.
- Winter 2008 Member, Scholarships, Awards, and Special Events Committee, University of Michigan – Flint.
- 2006 Member, Extended Learning and Service Committee, University of Michigan – Flint.

B. Departmental:

- 2018-2019 Chair, Recruitment & Communication Committee, Texas State University.
- 2018-2019 Member, Graduate Committee, Texas State University.
- 2017-2018 Chair, Geomorphology Search Committee, Texas State University.
- 2017-2018 Member, Instructor Review Committee, Texas State University.
- 2016-2017 Chair, Recruitment & Communication Committee, Texas State University.
- 2016-2017 Member, Evaluation Committee, Texas State University.
- 2014-2015 Member, GPP Faculty Search Committee, Texas State University.
- 2014-2015 Member, Climatology Faculty Search Committee, Texas State University.
- 2012-2015 Faculty Co-advisor, Graduate Student Research Symposium, Texas State University.
- 2010-2015 Faculty Advisor, Society of Geographic Information Science (SOGIS), Texas State University.
- 2014 Member, Personnel Committee Review Subcommittee, Texas State University.
- 2013-2014 Member, GIScience Faculty Search Committee, Texas State University.

2012-2013 Member, Undergraduate Committee, Texas State University.
2009-2010

2011-2012 Member, Evaluation Committee, Texas State University.

2011-2012 Faculty Advisor, Robby's Ride around the World, Texas State University.

2011-2012 Member, Physical Geographer Search Committee, Texas State University.

2010-2011 Member, Presidential Upper Level Scholarship Committee, Texas State University.

2010-2011 Member, Scholarships/Awards Committee, Texas State University.

2009-2011 Member, Web Site Committee, Texas State University.

C. Community:

Feb 6, 2008 Host, "Improving Michigan's Access to Geographic Information Networks (IMAGIN) Emerging Technologies Seminar - Lidar", University of Michigan – Flint.

D. Professional:

[Note: number of review is in parenthesis]

Treasurer of the University Consortium of Geographic Information Science (UCGIS)
2018-Present

Committee Member of the Membership Committee of UCGIS
2018-Present

Committee Member of the Research Grant Committee at the American Association of Geographers (AAG)
2015-2018

Board of Directors at the International Association of China Professional in Geographic Information Science (CPGIS)
2014-2016

Chair of International Association of China Professional in Geographic Information Science (CPGIS) Election Committee
2015

Chair of International Association of China Professional in Geographic Information Science (CPGIS) Newsletter Committee
2012-2014

Reviewer in Grant Proposal/Report
National Science Foundation 2009, 2010, 2012
Safe-D National UTC 2018

Reviewer in Peer-reviewed Journal

Cartography and Geographic Information Science	2010, 2018, 2019
Computers, Environmental and Urban Systems	2014, 2015, 2017, 2019
Geographic Information Science and Remote Sensing	2011, 2012, 2013
Geomatica	2019
IEEE Access	2018
International Journal of Geographic Information Science	2008 (2), 2010, 2011, 2012 (2), 2013, 2015, 2016
International Journal of Information Technology & Decision Making	2010
International Journal of Photogrammetry and Remote Sensing	2012
International Journal of Remote Sensing	2009
Journal of Applied Geography	2009
Journal of Environmental Management	2006
Journal of Hazards Material	2008
Journal of Medical Internet Research	2014
Natural Hazards Review	2007
International Journal of Digital Earth	2015
Transactions in GIS	2015

Reviewer in Peer-reviewed Book Chapter

Chapter 22 “The role of VGI as a compilation tool for building and maintaining map databases used in navigation and location applications” in Springer Book Series Volume on “Volunteered Geographic Information: New development and applications” 2011

Chapter 5 “Advanced Web-based GIS technologies for public health” in ISPRS Book Series Volume on “Advances in Web-based GIS, Mapping Services and Applications” 2009

Chapter 12 “A geospatial Web application to map observations and opinions in environmental planning” in ISPRS Book Series Volume on “Advances in Web-based GIS, Mapping Services and Applications” 2009

Reviewer in Text Book/Monograph

Harvey, F., 2014, A Primer of GIS: Fundamental Geographic and Cartographic Concepts, 2nd Edition. Guilford Press.

E. Organizations

1. Honorary:

2. Professional:

Member of

Association of American Geographers (AAG)
 American Society of Photogrammetry and Remote Sensing (ASPRS)
 Chinese Professional in Geographic Information Systems (CPGIS)

F. Services Honors and Awards: