

DEPARTMENT OF INTEGRATED SCIENCE AND ENGINEERING
FOR SUSTAINABLE SOCIETY
CHUO UNIVERSITY
中央大学 理工学部 人間総合理工学科
〒112-8551 東京都文京区春日 1-13-27
Email: iyamada.87s@g.chuo-u.ac.jp
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IKUHO YAMADA / 山田 育穂

Research Specialties/専門分野

Spatial statistics and quantitative spatial analysis/空間統計学及び計量的空間解析

Keywords: Network-based spatial analysis, spatial cluster detection, local statistics, space-time analysis, spatial surveillance
ネットワーク上空間解析, 空間的クラスター検出, ローカル統計量, 時空間解析, 空間モニタリング

Spatial information science and GIS (Geographic Information Systems) /空間情報科学及び地理情報システム

Keywords: Health GIS, software development, space-time modeling
保健医療のための GIS, ソフトウェア開発, 時空間モデリング

Medical and health geography/医療健康地理学

Keywords: Environment and health, spatial and space-time analysis of disease risk, disease and syndromic surveillance
環境と健康, 疾病リスクの空間解析・時空間解析, 疾病および症候群サーベイランス

Neighborhood environments and human health/都市居住環境と健康

Keywords: Physical activity and obesity, neighborhood walkability, healthy cities, compact cities, public transportation services, food environment, urban sustainability
身体活動と肥満, 近隣ウォークアビリティ, 健康都市, コンパクトシティ, 公共交通サービス, 食料環境, 都市のサステナビリティ

Education/学歴

2004 Doctor of Philosophy in Geography, University at Buffalo, The State University of New York, U.S.A.

ニューヨーク州立大学バッファロー校地理学科 博士課程修了

1999 Master of Engineering in Urban Engineering, University of Tokyo, Japan
東京大学大学院工学系研究科都市工学専攻 修士課程修了

1997 Bachelor of Engineering in Urban Engineering, University of Tokyo, Japan
東京大学工学部都市工学科 卒業

Academic Experience/職歴等

Employment/職歴

- 2013-present Professor, Department of Integrated Science and Engineering for Sustainable Society, Chuo University
中央大学理工学部 人間総合理工学科 教授
- 2013-present Visiting Researcher, Center for Spatial Information Science, University of Tokyo
東京大学 空間情報科学研究センター 客員研究員
- 2011-2013 Associate Professor, Interfaculty Initiative in Information Studies, University of Tokyo
東京大学大学院 情報学環 准教授
- 2010-2013 Associate Professor, Center for Spatial Information Science, University of Tokyo
東京大学 空間情報科学研究センター 准教授
- 2010-present Research Assistant Professor, Department of Geography, University of Utah
ユタ大学 地理学科 研究助教授
- 2009-2010 Assistant Investigator, Institute of Public and International Affairs, University of Utah, U.S.A.
ユタ大学 公共国際問題研究所 副研究員
- 2006-2010 Assistant Professor, Department of Geography, University of Utah, U.S.A.
ユタ大学 地理学科 助教授
- 2004-2006 Assistant Professor, Department of Geography and School of Informatics, Indiana University-Purdue University Indianapolis, U.S.A.
インディアナ大学-パデュー大学インディアナポリス校 地理学科及び情報科学部 助教授
- 2001-2004 Research Assistant, National Center for Geographic Information and Analysis, University at Buffalo, The State University of New York, U.S.A.
ニューヨーク州立大学バッファロー校 国立地理情報解析研究センター リサーチアシスタント

Other experience/その他

- Jan. 2011- Editorial Board member of *Computers, Environment and Urban Systems* (編集委員)
- Sep. 2011-Sep. 2012 Member of “Housing and Land Survey 2013” Study Group (Statistics Bureau, Ministry of Internal Affairs and Communications)
総務省統計局統計調査部国勢統計課 平成 25 年住宅・土地統計調査に関する研究会 委員
- 2010- Editorial Board member of *International Regional Science Review* (編集委員)
Guest editor of a special issue of *Journal of Geographical Systems* (2009, Vol. 2) (ゲスト編集長)

Publications and Presentations/研究業績一覧

Refereed journal articles/査読付き論文

- Zick, C.D., H. Hanson, J.X. Fan, K.R. Smith, L. Kowaleski-Jones, B.B. Brown, and **I. Yamada**. “Re-Visiting the Relationship between Neighbourhood Environment and BMI: An Instrumental Variables Approach to Correcting for Residential Selection Bias.” *International Journal of Behavioral Nutrition and Physical Activity*, 10(27), 2013.
- Yamada, I.**, B.B. Brown, K.R. Smith, C.D. Zick, L. Kowaleski-Jones, and J.X. Fan. “Mixed Land Use and Obesity: An Empirical Comparison of Alternative Land Use Measures and Geographic Scales.” *The Professional Geographer*, 64 (2), 2012, 157-177.
- Smith, K.R., C.D. Zick, L. Kowaleski-Jones, B.B. Brown, J.X. Fan, and **I. Yamada**. “Effects of Neighborhood Walkability on Healthy Weight: Assessing Selection and Causal Influences.” *Social Science Research*, 40 (5), 2011, 1445-1455.
- Yamada, I.** and J.-C. Thill. “Local Indicators of Network-constrained Clusters in Spatial Patterns Represented by a Link Attribute.” *The Annals of the Association of American Geographers*, 100 (2), 2010, 269-285.
- Zick, C.D., K.R. Smith, J.X. Fan, B.B. Brown, **I. Yamada**, and L. Kowaleski-Jones. “Running to the Store? The Relationship between Neighborhood Environments and the Risk of Obesity.” *Social Science and Medicine*, 69 (10), 2009, 1493-1500.
- Brown, B., **I. Yamada**, K. Smith, C. Zick, L. Kowaleski-Jones, and J. Fan. “Mixed Land Use and Walkability: Variations in Land Use Measures and Relationships with BMI, Overweight, and Obesity.” *Health & Place*, 15, 2009, 1130-1141.
- Siebeneck, L.K., R.M. Medina, **I. Yamada**, and G.F. Hepner. “Spatial and Temporal Analyses of Terrorist Incidents in Iraq, 2004-2006.” *Studies in Conflict and Terrorism*, 32 (7), 2009, 591-610.
- Yamada, I.**, P.A. Rogerson, and G. Lee. “GeoSurveillance: A GIS-based System for the Detection and Monitoring of Spatial Clusters.” *Journal of Geographical Systems*, 11 (2), 2009, 155-173.
- Smith, K.R., B.B. Brown, **I. Yamada**, L.R. Kowaleski-Jones, C.D. Zick, and J.X. Fan. “Walkability and Body Mass Index: Density, Design, and New Diversity Measures.” *American Journal of Preventive Medicine*, 35 (3), 2008, 237-244.
- Yamada, I.** and J.-C. Thill. “Local Indicators of Network-constrained Clusters in Spatial Point Patterns.” *Geographical Analysis*, 39 (3), 2007, 268-292.
- Rogerson, P. A. and **I. Yamada**. “Approaches to Syndromic Surveillance When Data Consist of Small Regional Counts.” *The 2003 National Syndromic Surveillance Conference Proceedings* (as a supplement of the *Morbidity and Mortality Weekly Report*), 53 (Suppl.), 2004, 79-85.
- Yamada, I.** and J.-C. Thill. “Comparison of Planar and Network *K*-functions in Traffic Accident Analysis.” *Journal of Transport Geography*, 12, 2004, 149-158.
- Rogerson, P. A. and **I. Yamada**. “Monitoring Change in Spatial Patterns of Disease: Comparing Univariate and Multivariate Cumulative Sum Approaches.” *Statistics in Medicine*, 23 (14), 2004, 2195-2214.
- Yamada, I.** and J.-C. Thill. “Enhancing Stated Preference Surveys in Transportation Research: The Contribution of Geographic Information Systems.” *Transportation Planning & Technology*, 26 (5), 2003, 377-396.

- Yamada, I.** and P. A. Rogerson. “An Empirical Comparison of Edge Effect Correction Methods Applied to K -function Analysis.” *Geographical Analysis*, 35 (2), 2003, 97-109.
- Okabe, A. and **I. Yamada**. “The K -function Method on a Network and its Computational Implementation.” *Geographical Analysis*, 33 (3), 2001, 271-290.
- 山田育穂, 岡部篤行**. “ネットワーク空間における K 関数法.” GIS—理論と応用, 8 (1), 2000, 75-82.
- 山田育穂, 貞広幸雄**. “百貨店に対する消費者の評価構造分析.” 応用地域学研究, 3, 1998, 49-60.

Book/著書

- Rogerson, P.A. and **I. Yamada**. *Statistical Detection and Surveillance of Geographic Clusters*. Boca Raton: CRC Press. 2009.

Other publications/その他の論文・出版物

- 山田育穂**. “住宅・土地統計調査から見る都市居住環境—健康地理学の視点から—.” 統計, July 2013, 27-32. [査読無し論文]
- Yamada, I.** “A Review of ‘Geographies of Obesity: Environmental Understandings of the Obesity Epidemic’.” *The Professional Geographer*, 63 (1), 2011 148-150. [書評]
- Lee, G., P.A. Rogerson, and **I. Yamada**. “GeoSurveillance: A GIS-based Exploratory Spatial Analysis Tool for Monitoring Spatial Patterns and Clusters.” In Fischer, M.M. and A. Getis (eds.): *Handbook of Applied Spatial Analysis*. Springer. 2009. [単行本中の論文]
- Yamada, I.** “An Empirical Analysis of Consumers’ Evaluation on Department Stores.” In Asami, Y., Y. Sadahiro, and T. Ishikawa (eds.): *New Frontiers in Urban Analysis: Collected Reviews*. Boca Raton: CRC Press. 2009, 133-158. [単行本中の論文]
- Yamada, I.** “Edge Effects.” In Kitchin, R. and N. Thrift (eds.): *International Encyclopedia of Human Geography*. The Netherlands: Elsevier. 2009, 381-388. [百科事典の項目]
- Liu, G.C., J.T. Colbert, J.S. Wilson, **I. Yamada**, and S.C. Hoch. “Examining Urban Environment Correlates of Childhood Physical Activity and Walkability Perception with GIS and Remote Sensing.” In Jensen, R.R., J.D. Gatrell, and D.D. McLean (eds.): *Geo-Spatial Technologies in Urban Environments Policy, Practice, and Pixels, Second Edition*. Berlin: Springer-Verlag. 2007, 121-140. [単行本中の論文]

Conference presentations/学会発表等

- Yamada, I.** and A. Okabe. “Toward More Robust Testing of Spatial Autocorrelation by Moran’s I Statistics.” *Regional Conference of the International Geographical Union*, Kyoto International Conference Center, Japan, August 2013.
- Yamada, I.** “A Space-time Analysis of the Risk of Low Birthweight and Neighborhood Contextual Factors.” *Regional Conference of the International Geographical Union*, Kyoto International Conference Center, Japan, August 2013.
- 山田育穂, 岡部篤行**. “Moran の I 統計量を用いた空間自己相関の検定に関する一提案.” 日本地理学会 2013 年春季学術大会, 立正大学, March 2013.

- 加藤寛泰, 山田育穂, 浅見泰司. “駅周辺居住高齢者の歩行環境評価構造に関する研究.”
日本地理学会 2012 年秋季学術大会, 神戸大学, October 2012.
- Yamada, I.** and A. Okabe. “New Approaches to Moran's *I* Test of Spatial Autocorrelation.”
The Association of American Geographers 108th Annual Meeting, New York, NY, February
2012.
- 山田育穂.** “Spatial Inequality in the Risk of Low Birthweight in the Greater Los Angeles Area,
California, USA.” 応用地域学会 2011 年度第 25 回研究発表大会, 富山大学,
December 2011.
- 山田育穂.** “Risk of Low Birthweight and Neighborhood Contextual Factors: A Case Study in
the Greater Los Angeles Area, California, USA.” 地理情報システム学会講演論文集,
20, 鹿児島大学, October 2011.
- Yamada, I.** “Spatial Variations in Associations between Neighborhood Walkability and Socio-
demographic Characteristics: A Case Study in Utah.” *The Association of American
Geographers 107th Annual Meeting*, Seattle, WA, April 2011.
- 山田育穂.** “Space-time Analysis of the Risk of Low Birthweight in the Greater Los Angeles
Area, California, 1985-2004.” 日本地理学会 2011 年春季学術大会, 明治大学,
March 2011. (東北大震災の影響により中止.)
- 山田育穂**, B.B. Brown, K.R. Smith, C.D. Zick, J.X. Fan, and L.R. Kowaleski-Jones.
“Neighborhood Walkability and Obesity: A Case Study in Salt Lake City, Utah, USA.”
地理情報システム学会講演論文集, 19, 立命館大学, November 2010.
- 山田育穂.** “米国カリフォルニア州における低出生体重リスクに関する時空間分析.” *CSIS
DAYS 2010*, 東京大学柏キャンパス, October 2010.
- Yamada, I.**, B.B. Brown, K.R. Smith, C.D. Zick, J.X. Fan, L.R. Kowaleski-Jones, and H. Hanson.
“Potential Benefit of Light Rail Transit Services to Reduce the Risk of Obesity: Selection
vs. Causation.” *The Association of American Geographers 106th Annual Meeting*, Washington,
DC, April 2010.
- Smith, K.R., **I. Yamada**, B.B. Brown, H. Hanson, C.D. Zick, and J.X. Fan. “Body Mass Index
and Neighborhood Characteristics: Assessing Selection and Causation Mechanisms
Using Mover-Stayer Models.” *The Population Association of America 2010 Annual Meeting*,
Dallas, TX, April 2010.
- Brown, B.B., J.X. Fan, **I. Yamada**, C.D. Zick. “Effects of Built Environment on Obesity: Using
a Propensity Score Approach to Assess Selection and Causal Influences.” *The Population
Association of America 2010 Annual Meeting*, Dallas, TX, April 2010.
- Yamada, I.** “Space-time Analysis of the Risk of Low Birthweight in California, 1985-2004.” *The
56th Annual North American Meetings of Regional Science Association International*, San
Francisco, CA, November 2009.
- Yamada, I.**, B.B. Brown, K.R. Smith, C.D. Zick, L.R. Kowaleski-Jones, and J.X. Fan.
“Neighborhood Land Use Diversity and Individual Weight Status: A Case Study in Salt
Lake County, UT.” *The Association of American Geographers 105th Annual Meeting*, Las
Vegas, NV, March 2009.

- Yamada, I.**, B.B. Brown, K.R. Smith, C.D. Zick, L.R. Kowaleski-Jones, and J.X. Fan. “Measuring Neighborhood Walkability for Obesity Research.” *The 55th Annual North American Meetings of the Regional Science Association International*, New York City, NY, November 2008.
- Zick, C.D., K.R. Smith, J.X. Fan, B.B. Brown, **I. Yamada**, and L.R. Kowaleski-Jones. “Running to the Store? The Relationship between Neighborhood Environments and the Risk of Obesity.” *The 2008 Joint Annual Meeting of the American Agricultural Economics Association and the American Council on Consumer Interests*, Orland, FL, July 2008.
- Michishita, R., B. Xu, and **I. Yamada**. “Time-series Network Analysis of Civil Aviation in Japan, 1985–2005.” *The 16th International Conference on Geoinformatics and the Joint Conference on GIS and Built Environment*, Guangzhou, China, June 2008.
- Yamada, I.**, K.R. Smith, C.D. Zick, L.R. Kowaleski-Jones, B.B. Brown, and J.X. Fan. “Neighborhood Environments and Obesity: A Comparison between Youth and Young Adults to Assess Selection and Causal Influences.” *The Association of American Geographers 104th Annual Meeting*, Boston, MA, April 2008.
- Yamada, I.**, P.A. Rogerson, and G. Lee. “GeoSurveillance: GIS-based Monitoring System for Detection of Geographic Clusters.” *The 54th Annual North American Meetings of the Regional Science Association International*, Savannah, GA, November 2007.
- Yamada, I.** “Teen Pregnancies and Local Community Environments: A Case Study in Marion County, Indiana.” *The Association of American Geographers 103rd Annual Meeting*, San Francisco, CA, April 2007.
- Smith, K.R., B.B. Brown, J.X. Fan, C.D. Zick, and **I. Yamada**. “Where Weight Waxes and Wanes: Spatial Variation in Adult Body Mass Index.” *The Population Association of America 2007 Annual Meeting*, New York, NY, March 2007.
- Yamada, I.** and K.F. Comer. “Exploratory Modeling of Teen Pregnancy Prevalence Using a GIS-based Community Information System.” *The 134th Annual Meeting & Exposition of the American Public Health Association*, Boston, MA, November 2006.
- Yamada, I.** and K. Frederickson. “Teen Pregnancy and Community Environments: Inductive Learning Approaches with a GIS-based Community Information System.” *The 37th Annual Meeting of the Mid-continent Regional Science Association*, Indianapolis, IN, June 2006.
- Yamada, I.** and K. Frederickson. “Exploratory Modeling of Teenage Pregnancy Prevalence.” *The Association of American Geographers 102nd Annual Meeting*, Chicago, IL, March 2006.
- Yamada, I.** and J.-C. Thill. “Local Indicators of Network-constrained Clusters in Spatial Phenomena Represented by a Link Attribute.” *The 52nd Annual North American Meetings of the Regional Science Association International*, Las Vegas, NV, November 2005.
- Yamada, I.** “Local Indicators of Network-constrained Clusters for a Spatial Point Pattern.” *The Association of American Geographers 101st Annual Meeting*, Denver, CO, April 2005.
- Yamada, I.** and J.-C. Thill. “Hot Spot Detection in a Network Space.” *The 51st Annual North American Meetings of the Regional Science Association International*, Seattle, WA, November 2004.

- Yamada, I.** *Analysis of Spatial Clusters When the Phenomenon Is Constrained by a Network Space.* University at Buffalo, The State University of New York, Ph.D. Dissertation. July 2004.
- Rogerson, P.A. and **I. Yamada.** “GeoSurveillance: Software for Monitoring Change in Geographic Patterns.” *Proceedings Part 2 of Computational Science and Its Applications – ICCSA 2004: International Conference (as Lecture Notes in Computer Science)*, 3044, 1096-1106, Assisi, Italy, May 2004.
- Yamada, I.** and P.A. Rogerson. “Detecting Changes in Spatial Patterns of Disease: A GIS Application.” *The Regenstrief Institute Work-in-Progress Seminar* at Indiana University-Purdue University Indianapolis, IN, October 2004.
- Yamada, I.** “Detection and Analysis of Local Spatial Clusters in a Network Space.” *The Association of American Geographers 100th Annual Meeting*, Philadelphia, PA, March 2004.
- Yamada, I.** and J.-C. Thill. “Local Scale K -function Analysis for a Network-Constrained Spatial Phenomenon.” *The 50th Annual North American Meetings of the Regional Science Association International*, Philadelphia, PA, November 2003.
- Rogerson, P.A. and **I. Yamada.** “Spatial Surveillance for Public Health Applications.” *GeoMed 03*, Baltimore, MD, October 2003.
- Rogerson, P.A. and **I. Yamada.** “GeoSurveillance: Software for Monitoring Changes in Geographic Patterns with Applications to Public Health.” *National Syndromic Surveillance Conference 2003*, New York, NY, October 2003.
- Yamada, I.** and P.A. Rogerson. “Alternative Approaches for Syndromic Surveillance.” *Joint Statistical Meetings 2003*, San Francisco, CA, August 2003.
- Rogerson, P.A. and **I. Yamada.** “Monitoring Changes in Spatial Patterns of Disease with Cumulative Sum Approaches: A GIS Application.” *UB This Summer, Career Perspectives series, Bioinformatics*, University at Buffalo, NY, June 2003.
- Yamada, I.** and P.A. Rogerson. “A GIS Application for the Quick Detection of Changes in Spatial Patterns of Disease Using Cumulative Sum Methods.” *The Association of American Geographers 99th Annual Meeting*, New Orleans, LA, March 2003.
- Rogerson, P.A. and **I. Yamada.** “Monitoring Health Data for the Quick Detection of Changes in Geographic Patterns.” *The Association of American Geographers 99th Annual Meeting*, New Orleans, LA, March 2003.
- Yamada, I.** and J.-C. Thill. “Empirical Comparisons of Planar and Network K -functions in Traffic Accident Analysis.” *Transportation Research Board 82nd Annual Meeting*, Washington, D.C., January 2003.
- Rogerson, P.A., **I. Yamada**, and D. Han. “Quick Detection of Spatial and Temporal Clusters of Disease.” *The 12th Conference of the International Society of Exposure Analysis and 14th Conference of the International Society for Environmental Epidemiology*, Vancouver, BC, Canada, August 2002.
- Yamada, I.** and J.-C. Thill. “An Empirical Comparison of the Performances of Planar and Network K -functions.” *The Association of American Geographers 98th Annual Meeting*, Los Angeles, CA, March 2002.

Yamada, I. and J.-C. Thill. “A Prototypical Application of GIS to a Stated Preference Survey.”
The 48th North American Meetings of the Regional Science Association International, Charleston,
SC, November 2001.

後藤寛, 山田育穂, 岡部篤行, 山崎利夫, 高阪宏行, 金子忠明, 高見健太郎. “スポーツクラブ会員の時空間行動の基礎的分析.” 地理情報システム学会講演論文集, 9, 219-223, November 2000.

山田育穂, 岡部篤行. “ネットワーク空間における K 関数法とその計算法.” *CSIS Discussion Paper Series*, 23. 東京大学空間情報科学研究センター, December 1999.

山田育穂, 貞広幸雄, 岡部篤行. “商店街カードデータを用いた世田谷烏山駅前通り商店街の商圈構造分析.” 地理情報システム学会講演論文集, 8, 47-52, November 1999.

奥貫圭一, 岡部篤行, 足達俊雅, 上山敬之, 相良新一郎, 東海林洋介, 山田育穂, 和美宗一郎. “インターネットホームページを利用した都市計画情報システムの作成.” 地理情報システム学会講演論文集, 5, 7-12, November 1996.

Other presentations/シンポジウムでの講演等

山田育穂. “空間情報によって広がる健康の空間分析の可能性.” 東京大学 情報学環・空間情報科学研究センター シンポジウム「空間を知る－空間・情報・人間－」, 東京大学, May 2012.

山田育穂. “健康的な住環境を目指して ～米国の肥満研究を題材に～.” 日本教育学会 第 70 回大会, 公開シンポジウム II 「子供の安全と健康」, 千葉大学, August 2011.

山田育穂. “都市が健康をつくる?－米国ソルトレイクシティの肥満研究を題材に－.” 平成 23 年度「家族でナツク! 理系最前線Ⅲ～未来のワタシに出会う日」シンポジウム, 東京大学弥生講堂, August 2011.

山田育穂. “空間情報科学のチャレンジ～空間解析の視点から～.” *G 空間 EXPO*, 「未来の空間情報科学」シンポジウム, パシフィコ横浜, September 2010.

Grants and Awards/研究助成費及び受賞

Grants/研究助成費等

平成 24 年度科学研究費助成事業, 若手研究 (B). “超高齢社会を支える健康基盤としての都市ウォーカービリティの研究.” PI, 04/2012-03/2015.

平成 24 年度科学研究費助成事業, 挑戦的萌芽研究. “「地理の第 1 法則」を正しく検定する革新的な空間自己相関法の開発.” 研究分担者 (PI: 青山学院大学 岡部篤行), 04/2012-03/2015.

社団法人不動産流通経営協会 平成 23 年度研究助成事業. “東日本大震災被災地域における平成 25 年住宅・土地統計調査の被災・復興状況を考慮した調査方法の研究.” PI, 11/2011-10/2012.

National Institutes of Health Research Project Grant (R01), National Cancer Institute: “Neighborhood Built and Social Environment and Physical Activity and Weight Status.” Co-investigator (PI: Ming Wen, Department of Sociology, University of Utah), \$1,245,000, 2010-2014. (* 2010 年度のみ参加)

National Poverty Center & Economic Research Service: “Alternative Measures of Food Environments in Poor and Non-poor Neighborhoods.” Co-investigator (PIs: Jessie X. Fan and Lori R. Kowaleski-Jones, Department of Family and Consumer Studies, University of Utah), \$5,000, 2008.

National Institutes of Health Exploratory/Developmental Research Grant (R21), National Institute of Diabetes, Digestive and Kidney Diseases: “Neighborhood Characteristics and Body Mass Index: Selection or Causation?” Co-investigator (PIs: Lori R. Kowaleski-Jones and Ken R. Smith, Department of Family and Consumer Studies, University of Utah), \$275,000, 2008-2010. Additional administrative supplement of \$91,569, 2009.

Research Support Grant, Southwest Consortium for Environmental Research and Policy: “Spatial Distribution of Teen Pregnancy Incidence in California and Baja California: Comparison between the Border and Non-border Regions.” Principal investigator, \$16,000, 2006-2007.

Grand-in-Aid for Minority Faculty Development, Office of Professional Development, Indiana University-Purdue University Indianapolis: “Spatial Prospective Surveillance of Nosocomial Infection Events Using Spatial Statistics and Geographic Information Systems.” Principal investigator, \$3,000, 2005-2006.

Research Support Grant, Polis Center and School of Informatics, Indiana University-Purdue University Indianapolis: “Spatial Analysis of Community Health Issues Using SAVI Data.” Principal investigator, \$5,000, 2005.

Scholarships and awards/奨学金及び受賞

Winner of the Population Association of America (PAA) poster competition, 2007.

Winner of the Regional Science Association International (RSAI) dissertation competition, 2005.

Winner of the Emerging Scholar Paper Competition, Spatial Analysis and Modeling Specialty Group in the Association of American Geographers (AAG), 2005.

Full scholarship to attend “Advanced spatial demography” workshop at the Max Planck Institute for Demographic Research in Rostock, Germany. Invited by Dr. Daniel Griffith. November 2005.

College of Arts and Sciences Dissertation Fellowship, University at Buffalo, The State University of New York, 2003-2004.

Research Assistantship, National Center for Geographic Information and Analysis, University at Buffalo, The State University of New York, 2001-2004.

CSISS Workshop Scholarship, Center for Spatially Integrated Social Science, 2001.

平和中島財団留学生奨学金, 2000-2002.

Teaching Activities/教育活動

Courses taught/講義

中央大学/Chuo University

空間情報科学概論 / Introduction to Spatial Information Science (後期 2013-)

東京大学/University of Tokyo

総合分析情報学基礎 V: 空間情報科学入門/ Basic Lectures in Applied Computer Science V:
Introduction to Spatial Information Science (前期 2012)
都市解析/Urban Analysis (Summer 2011-2012; 分担)
空間情報解析/Spatial Information Analysis (後期 2010; 分担)
空間情報解析演習/Exercises in Spatial Information Analysis (後期 2010; 分担)

University of Utah/ユタ大学

Introduction to Medical Geography/医療地理学入門 (Spring 2008, 2009)
Detection and Monitoring of Spatial Clusters, Graduate Seminar/大学院セミナー 空間クラス
ター解析法 (Fall 2007, 2009)
Spatial Modeling with GIS/地理情報システムによる空間的モデリング法 (Spring 2007-2010)
Network-based Spatial Analysis, Graduate Seminar/大学院セミナー ネットワーク上空間解析
法 (Spring 2007)
Spatial Statistics/空間統計学 (Fall 2006-2009)

Indiana University-Purdue University Indianapolis/インディアナ大学-パデュー大学インディアナポリス校

Introduction to Geographic Information Systems/地理情報システム入門 (Spring 2005, 2006)
Health Applications of GIS/保健医療のための地理情報システム (Spring 2005)
Applied Spatial Statistics/空間統計学入門 (Fall 2004, 2005)

University at Buffalo/ニューヨーク州立大学バッファロー校

Spatial Statistics/空間統計学 (Fall 2003; ゲスト講師)
Transportation Modeling and GIS/地理情報システムによる交通モデリング法 (Spring 2002;
ゲスト講師)

Graduate student supervision/大学院生指導

Ongoing/在籍中 (as a committee member; 副査)

Marissa Taddie: Ph.D., University of Utah

Completed/修了 (as a committee member; 副査)

Md. Manjur Morshed, 博士 (学術), 東京大学, 2013

Kristoffer B. Berse, 博士, 東京大学, 2013

末田 航, 博士 (学際情報学), University of Tokyo, 2013

Tetsuo Kobayashi: Ph.D., University of Utah, 2010

Laura Siebeneck: Ph.D., University of Utah, 2010

Richard Medina: Ph.D., University of Utah, 2009

Christopher Upchurch: Ph.D., University of Utah, 2009

Marquessa Van Drimmelen: Master's, University of Utah, 2009

Andrea Bair: Master's, University of Utah, 2008.

Seth Anderson: Master's, University of Utah, 2007

James Colbert: Master's, Indiana University-Purdue University Indianapolis, 2006

Service Activities/その他の活動

Manuscript reviews/学術誌査読等

The Annals of the Association of American Geographers
Computers, Environment and Urban Systems
Geographical Analysis
Health & Place
Health Research Board, Ireland
International Journal of Geographical Information Science
John Wiley & Sons
Journal of Geographical Systems
National Science Foundation, U.S.A.
Papers in Regional Science
The Professional Geographer
Statistics in Medicine
Environment and Behavior
Environment and Planning B

Professional affiliations/所属学会等

日本都市計画学会/City Planning Institute of Japan (1997-2005; 2010-)
応用地域学会/Applied Regional Science Conference (1997-2005, 2011-)
地理情報システム学会/Geographic Information Systems Association in Japan (1999-; 代議員
2012-)
Association of American Geographers (2000-)
Regional Science Association International (2000-)
日本地理学会/Association of Japanese Geographers (2010-)
人文地理学会/Human Geographical Society of Japan (2010-)
都市住宅学会/Association of Urban Housing Sciences (2011-)
Transportation Research Board (2003-2005)
Mid-Continent Regional Science Association (2006-2007)
American Public Health Association (2006-2008)