

CURRICULUM VITAE

Christopher Antoun

Contact Information

Joint Program in Survey Methodology
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College Park, MD 20742
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Profile

Methodologist with training in survey and data science. Research focuses on new technologies in data collection, including mobile Web surveys, smartphone apps, and text messaging. Teaching experience in data analysis, data collection methods, experimental and non-experimental research methods, questionnaire design, and evidence-based decision making. Experienced using SAS, R, and Tobii eye tracking software.

Current Appointment

Assistant Research Professor, Joint Program in Survey Methodology (JPSM) and College of Information Studies (iSchool), University of Maryland, College Park

Education

Ph.D. 2015 University of Michigan. Survey Methodology
M.S. 2011 University of Michigan. Survey Methodology
B.A. 2004 University of Virginia. Economics, Political Theory
2002 Augsburg College. Semester study abroad in Central America

Academic and Research Experience

2018 – present Assistant Research Professor, JPSM and iSchool, University of Maryland, College Park
2017 – present Adjunct Research Assistant Professor, Institute for Social Research, University of Michigan, Ann Arbor
2017 – 2018 Lecturer, JPSM and iSchool, University of Maryland, College Park
2015 – 2017 Postdoctoral Research Fellow, Human Factors and Usability Research Group, Center for Survey Measurement, U.S. Census Bureau

2011 – 2015	Graduate Student Research Assistant, Institute for Social Research, University of Michigan
2009 – 2011	Research Assistant, Survey Research Operations unit, Survey Research Center, Institute for Social Research, University of Michigan

Journal Articles and Book Chapters

- Keusch, F., Struminskaya, B., **Antoun, C.**, Couper, M.P., & Kreuter, F. (in press). Willingness to participate in passive mobile data collection. *Public Opinion Quarterly*.
- Antoun, C.**, & Cernat, A. (2019). Factors Affecting Completion Times: A Comparative Analysis of Smartphone and PC Web Surveys. *Social Science Computer Review*.
- Antoun, C.**, Conrad, F., Couper, M., & West, B. (2018). Simultaneous Estimation of Multiple Sources of Error in a Smartphone-based Survey. *Journal of Survey Statistics and Methodology*. DOI: 10.1093/jssam/smy002
- Parikh, S., Taubman, D., **Antoun, C.**, Cranford, J., Ewell Foster, C., Grambeau, M., Hunter, J., Jester, J., Konz, K., Meyer, T., Salazar, S., & Greden, J. (2018). The Michigan Peer-to-Peer Depression Awareness Program: School-Based Prevention to Address Depression Among Teens. *Psychiatric Services*, 69(4), 487-491.
- Antoun, C.**, Katz, J., Argueta, J. & Wang L. (2017). Design Heuristics for Effective Smartphone Questionnaires. *Social Science Computer Review*, 36(5), 557-574.
- Antoun, C.**, Couper, M.P., & Conrad, F.G. (2017). Effects of Mobile versus PC Web on Survey Response Quality: a Crossover Experiment in a Probability Web Panel. *Public Opinion Quarterly*. 81(S1), 280-306.
- Conrad, F. G., Schober, M. F., **Antoun, C.**, Yan, H. Y., Hupp, A. L., Johnston, M., Ehlen, P., Vickers, L., & Zhang, C. (2017). Benefits of respondent mode choice in a smartphone survey. *Public Opinion Quarterly*. 81(S1), 307-337.
- Couper, M.P., **Antoun, C.**, & Mavletova, A. (2017). Mobile Web Surveys: A Total Survey Error Perspective. In P. Biemer, S. Eckman, B. Edwards, E. de Leeuw, F. Kreuter, L. Lyberg, C. Tucker, and B. West (eds.), *Total Survey Error in Practice*. New York: Wiley, pp. 133-154.
- Conrad, F.G., Schober, M.F., **Antoun, C.** Hupp, A.L., & Yan, H. Y. (2017). Text Interviews on Mobile Devices. In P. Biemer, S. Eckman, B. Edwards, E. de Leeuw, F. Kreuter, L. Lyberg, C. Tucker, and B. West (eds.), *Total Survey Error in Practice*. New York: Wiley, pp. 299-318.
- Antoun, C.**, Zhang, C., Conrad, F.G., & Schober, M.F. (2016). Comparisons of Online Recruitment Strategies for Convenience Samples: Craigslist, Google AdWords, Facebook and Amazon Mechanical Turk. *Field Methods*. DOI: 10.1177/1525822X15603149

Antoun, C. (2015). Who Are the Internet Users, Mobile Internet Users, and Mobile-Mostly Internet Users?: Demographic Differences across Internet-Use Subgroups in the U.S. In Toninelli, D *et al.* *Mobile Research Methods: Opportunities and challenges of mobile research methodologies*. London: Ubiquity Press. DOI: <http://dx.doi.org/10.5334/bar>

Schober, M.F., Conrad, F.G., **Antoun, C.**, Ehlen, P., Fail, S. Hupp, A.L., Johnston, M., Vickers, L., Yan, H.Y., & Zhang, C. (2015). Precision and Disclosure in Text and Voice Interviews on Smartphones. *PLoS ONE* 10(6): e0128337.
doi:10.1371/journal.pone.0128337

Guidelines for Best Practice in Cross-Cultural Surveys. (2010). Ann Arbor, MI: Survey Research Center, Institute for Social Research, University of Michigan. Retrieved from <http://www.ccsgr.isr.umich.edu/>. (1) *Ethical Considerations in Surveys*. Alcsar, K., **Antoun, C.**, Bowers, A., Clemens, J., & Lien C. (2) *Study, Organizational, and Operational Structure*. Orłowski, R. A. & **Antoun, C.**; and (3) *Tenders, Bids, and Contracts*. Orłowski, R. A. & **Antoun, C.**

Peer-Reviewed Conference Proceedings

Olmsted-Hawala, E., Nichols, E., Falcone, B., Figueroa, I., **Antoun, C.**, Wang, L. (2018). Optimal Data Entry Designs in Mobile Web Surveys for Older Adults. In *International Conference on Human Aspects of IT for the Aged Population*, pp. 335-354.

Wang, L., **Antoun, C.**, Sanders, R., Nichols, E., Olmsted Hawala, E.L., Falcone, B., Figueroa, I., & Katz, J. (2017). Experimentation for developing evidence-based UI standards of mobile survey questionnaires. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*, pp. 2998-3004.

Johnston, M., Ehlen, P., Conrad, F.G., Schober, M.F., **Antoun, C.**, Fail, S., Hupp, A., Vickers, L., Yan, H., & Zhang, C. (2013). Spoken dialog systems for automated survey interviewing. In *Proceedings of the SIGDIAL 2013 Conference*, pp. 329-333.

Works in Progress

Antoun, C., Conrad, F.G., Couper, M.P., & West, B.T. (*In Preparation*). Survey Participation in Mobile versus PC Web: Exploring what Moderates the Device-Response Rate Relationship. *Journal TBD*.

Hubbard, F., **Antoun, C.**, & Conrad, F.G. (*In Preparation*). Conversational interviews: What kinds of questions can be asked and who is best suited to ask them? *Journal TBD*.

Professional Presentations

- Wang, L., Antoun, C., Sanders, R., Nichols, E., Olmsted-Hawala, E., Falcone, B., Figueroa, I., Katz, J., & Rivas, A. (2018). *Evidence-based Standards and Guidelines for Mobile Survey Instrument Design*. Paper presented at the Federal Committee on Statistical Methodology Conference, Washington, D.C.
- Broome, J., Antoun, C. & Evans, R. (2017). *Applying usability features of popular apps to mobile surveys*. Paper presented at the 7th Conference of the European Survey Research Association (ESRA), Lisbon, Portugal.
- Wang, L., Antoun, C., Sanders, R., Nichols, E., Olmsted-Hawala, E., Falcone, B. & Figueroa, I. (2017). *Development of standards and guidelines for mobile survey instruments*. Paper presented at the 7th Conference of the European Survey Research Association (ESRA), Lisbon, Portugal.
- Antoun, C., Bauman, K., File, T., & Miller, P. V. (2017). *Are those who misreport voting given more weight in nonresponse adjustments?*. Paper presented at the International Total Survey Error Workshop, Nuremberg, Germany.
- Antoun, C. (2017). *Designing response options for touch in mobile surveys*. Paper presented at the American Association of Public Opinion Research (AAPOR) annual conference, New Orleans, LA.
- Keusch, F., Antoun, C. Couper, M. P., Kreuter, F., & Struminskaya, B. (2017). *Willingness to participate in passive mobile data collection*. Paper presented at the AAPOR annual conference, New Orleans, LA.
- E. Olmsted-Hawala, C. Antoun, B. Falcone, R. Keegan, I. Figueroa, E. Nichols, J. Katz, M. Davis, & L. Wang. (2017). *Incorporating Iterative Usability Evaluation into the Lifecycle of Designing and Developing an Online Household Survey*. Paper presented at the FedCASIC annual conference, Washington, D.C.
- Antoun, C. & Cernat, A. (2016). *Exploring why Web surveys take longer to complete on smartphones than PCs: findings from a within-subjects experiment*. Paper presented at the AAPOR annual conference, Austin, TX.
- Bapna, V. & Antoun, C. (2016). *Embedding survey questions within non-research apps: A method for collecting high-quality data from smartphone users?* Paper presented at the AAPOR annual conference, Austin, TX.
- Antoun, C. (2015). *Decomposing mobile versus PC Web mode effects in a probability Web panel*. Paper presented at the Joint Statistical Meetings (JSM), Seattle, WA.

- Traugott, M. & Antoun, C. (2015). *An experiment in open end response quality in relation to text box length in a Web survey*. Paper presented at the 6th Conference of the European Survey Research Association (ESRA), Reykjavik, Iceland.
- Antoun, C. (2015). *Effects of mobile versus PC Web on survey response quality: a crossover experiment in a probability Web panel*. Paper presented at the AAPOR annual conference, Hollywood, FL. Presented at the 6th Conference of the European Survey Research Association (ESRA), Reykjavik, Iceland.
- Antoun, C., Couper, M. P., & Conrad, F. G. (2014). *Comparing errors from non-coverage to other errors in a mobile Web survey*. Paper presented at the 7th International Web Survey Workshop, Bolzano, Italy
- Antoun, C. & Couper, M. P. (2014). *Comparing errors from non-coverage to other errors in a mobile Web survey*. Paper presented at the 8th International Total Survey Error Workshop, Washington, D.C.
- Antoun, C. (2014). *Nonresponse in a mobile-Web survey: a first look at the causes and the performance of different predictive models*. Paper presented at the AAPOR annual conference, Anaheim, CA.
- Zhang, C., Antoun, C., Yan, H., Conrad, F.G., Tourangeau, R., & Couper, M.P. (2014). *Characteristics and behaviors of professional respondents in online opt-in panels*. Paper presented at the AAPOR annual conference, Anaheim, CA.
- Conrad, F.G., Schober, M.F., Antoun, C., Hupp, A.L., & Yan, H. (2014). *Interviewing by texting: costs, efficiency and data quality*. Paper presented at the AAPOR annual conference, Anaheim, CA.
- Antoun, C. (2014). *Predicting participation in a mobile-Web survey*. Poster presented at the 7th Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI.
- Antoun, C. & Couper, M. P. (2013). *Mobile-mostly Internet users and selection bias in traditional Web surveys*. Paper presented at the Midwestern Association for Public Opinion Research Conference, Chicago, IL.
- Antoun, C. (2013). *Identifying the dimensions of question sensitivity: A multidimensional scaling study*. Paper presented at the AAPOR annual conference, Boston, MA.
- Conrad, F.G., Schober, M.F., Zhang, C., Yan, H., Vickers, L., Johnston, M., Hupp, A. L., Hemingway, L., Fail, S., Ehlen, P., & Antoun, C. (2013). *Mode choice on an iPhone increases survey data quality*. Paper presented at the AAPOR annual conference, Boston, MA.
- Schober, M.F., Conrad, F.G., Antoun, C., Bowers, A., Hupp, A., & Yan Y. (2013). *Conversational interaction and survey data quality in SMS text*. Paper presented at the AAPOR annual conference, Boston, MA.

- Antoun, C., Zhang, C., Conrad, F.G., & Schober, M.F. (2013). *Comparisons of online recruitment strategies: Craigslist, Google Ads and Amazon's Mechanical Turk*. Poster Presented at the AAPOR annual conference, Boston, MA.
- Johnston M., Ehlen, P., Conrad, F.G., Schober, M.F., Antoun, C., Fail, S., Hupp, A., Vickers, L., Yan, H., & Zhang, C. (2013). *Reducing survey error in a mobile speech-IVR system*. Methodological Brief Presented at the AAPOR annual conference, Boston, MA.
- Antoun, C. (2012). *Exploring the dimensionality of sensitive survey questions*. Paper presented at the Midwestern Association for Public Opinion Research Conference, Chicago, IL.
- Hubbard, F., Antoun, C., & Conrad, F.G. (2012) *Conversational interviewing and the comprehension of opinion questions*. Paper presented at the RC33 Conference on Social Science Methodology, Sydney, Australia.
- Antoun, C. (2012). *The utility of interviewer ratings about survey data quality*. Paper presented at the AAPOR annual conference, Orlando, FL.
- Schober, M.F., Conrad, F.G., Antoun, C., Carroll, D., Ehlen, P., Fail, S., Hupp, A.L., Johnston, M., Kellner, C., Nichols, K., Percifield, L., Vickers, L., Yan, H., & Zhang, C. (2012). *Disclosure and quality of answers in text and voice interviews on iPhones*. Paper presented at the AAPOR annual conference, Orlando, FL.
- Hubbard, F., Antoun, C., & Conrad, F.G. (2012) *Conversational interviewing and the comprehension of opinion questions*. Paper presented at the AAPOR annual conference, Orlando, FL.
- Antoun, C. (2011). *Interviewer ratings of respondents who changed their answers about sex partners*. Paper presented at the Midwestern Association for Public Opinion Research Conference, Chicago, IL.
- Bowers, A., Orłowski, R. A., Lee, H. J., & Antoun, C. (2010). *Understanding the effect of job satisfaction moderated by job involvement on interviewer turnover*. Paper presented at the Joint Statistical Meetings in Vancouver, British Columbia.

Invited Presentations

- Antoun, C. (September, 2018). *Total Survey Error Framework*. Lecture to Delegation from National Bureau of Statistics of China (NBS) hosted by the United States-China Exchange Council (USCEC), College Park, MD.
- Antoun, C. (July, 2018). *Voting misreporting and nonresponse weighting adjustments*. Current Population Survey (CPS) Forum on Measuring Voter Turnout, U.S. Census Bureau, Washington, DC.

- Antoun, C. (March, 2018). *Effects of mobile versus PC Web on survey response quality: A crossover experiment in a probability web panel*. DC-AAPOR Public Opinion Quarterly Special Issue Conference, Washington, DC.
- Antoun, C. (February, 2016). *Error considerations in mobile Web surveys*. Pew Research Center, Washington, DC.
- Antoun, C. (March, 2014). *A look at the causes of nonresponse in a mobile-Web survey*. WebDataNet Conference on Mobile Research, Larnaca, Cyprus.
- Antoun, C. (November, 2013). *General Interviewing Techniques*. Henry Ford Health System Interviewer Workshop, Detroit, MI.
- Antoun, C. (October, 2013). *Mobile-Web surveys: a first look at noncoverage, nonresponse, and measurement error*. Sponsor's Executive Briefing for Michigan Program in Survey Methodology, Ann Arbor, MI.

Grants and Awards

(* = co-authored)

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| 2018 | Global Classrooms Initiative Grant (\$10,000). <i>Collaborated with the Univ. of Mannheim to develop a shared project-based graduate course called "Big Data in Immigration Research"</i> |
| 2018 | Year of Data Science Grant, "UMD Data Challenge: Data Integration and the Community" (\$10,000)* |
| 2018 | Year of Data Science Grant, "UMD-ASA DataFest DC Summit" (\$3,000)* |
| 2015 | AAPOR Seymour Sudman Student Paper Competition Winner |
| 2014 – 2015 | Daniel Katz Dissertation Fellowship in Psychology and Survey Methodology (stipend of \$20,000) |
| 2014 | Student Travel Award, International Total Survey Error Workshop |
| 2014 | Rackham Graduate Student Research Grant (\$2000) |
| 2015, 2014, 2013, 2011 | Rackham Travel Grant, conference travel expenses |
| 2014 | Best Poster Award from the Michigan Student Symposium for Interdisciplinary Statistical Sciences |
| 2014, 2013, 2012 | Program in Survey Methodology Travel Award, conference expenses |
| 2013 | SEARCH Grant from the Institute for Social Research and James N. Morgan Fund for New Directions in Analysis of Complex Interactions (\$15,000) |
| 2013 | "Nonresponse and Measurement Error in Mobile Web Surveys," <i>CentERdata Institute for Data Collection, Tilburg University, Netherlands</i> (Approved research proposal) |

2012	“Exploring the Dimensionality of Sensitive Survey Questions,” Rackham Graduate Student Research Grant (\$1425)
2011 – 2012	Angus Campbell Graduate Fellowship for doctoral study at the University of Michigan, full tuition and stipend
2011	Student Paper Award from the Midwestern Association for Public Opinion Research (Honorable Mention)
2009 – 2011	Survey Research Operations Traineeship for Master’s coursework at the University of Michigan, full tuition and stipend for two years
2006	President’s Emergency Plan for AIDS Relief (PEPFAR) Grant (\$6,300) to conduct health trainings as Peace Corps Volunteer

Teaching Experience

(* = graduate course; UMD = University of Maryland; U-M = University of Michigan)

Instructor:

Total Survey Error/Quality* (Fall 2017, Fall 2018; UMD/U-M joint course)

Data Analytics for Information Scientists* (Spring 2018; UMD)

Data Collection Methods* (Fall 2017, Fall 2018; UMD Online)

Decision Making for Information Science (Fall 2017, Spring 2018; UMD. Fall 2018; Spring 2019; UMD Online)

Big Data in Immigration Research (Spring 2019)

Teaching assistant:

Inference from Experimental & Non-Experimental Research Studies* (Summer 2015; U-M)

Introduction to statistical principles and data analysis* (Summer 2014, Summer 2015; U-M)

Questionnaire Design* (Summer 2011, Summer 2012; U-M)

Data Collection Methods* (Summer 2014, U-M)

Data Collection: Online, Telephone and Face-to-face (Fall 2016 – Spring 2017, Coursera)

Consulting

2013 – 2014	Questionnaire design for study to assess effectiveness of Peer to Peer Depression Awareness Campaign, conducted by the University of Michigan Depression Center
2012 – 2013	Questionnaire design for study on dental appointment noncompliance, conducted by University of Michigan (Public Policy Practicum) & University of Detroit-Mercy (School of Dentistry)

2012 Web survey programming in Qualtrics for study on M-Cubed Program,
University of Michigan, Ann Arbor, MI

Professional Organizations/Affiliations

2018 – present Global Classrooms Initiative Fellow for UMD Office of International
Affairs

2014 – present European Survey Research Association (member)

2013 – present American Statistical Association (member)

2009 – present American Association for Public Opinion Research (member)

2009 – present Midwestern Association for Public Opinion Research (member)

Service

Professional service

Manuscript reviewer:

Behavior Research Methods, Educational and Psychological Measurement; The
European Journal of Social Science Research; Field Methods; International Journal
of Public Opinion Research; Journal of Official Statistics; Journal of Survey Statistics
and Methodology; methods, data, analyses; Population and Environment; Public
Opinion Quarterly; Social Science Computer Review; Survey Methodology; Survey
Research Methods

Abstract reviewer:

AAPOR conference (2015); General Online Research (GOR) conference (2018)

Conference moderator/discussant:

AAPOR conference (2014, 2016);

MAPOR conference: moderator (2013)

Member of Advisory Board for International Program in Survey and Data Science (IPSDS),
2018 – present

Member of Steering Committee for UMD Year of Data Science, 2017 – present

Member of communications committee for AAPOR, 2017 – present

Chair of Website Subcommittee for AAPOR, 2018 – present

Member of Diversity Committee for UMD iSchool, 2018 – present

Member of Bachelor of Science in Information Science (BSIS) Undergraduate Committee
for UMD iSchool, 2017 – 2018

Other service

Conversation Circles group leader, English Language Institute, University of Michigan, 2013

Volunteer, Big Brothers Big Sisters, Richmond, VA, 2008

Peace Corps Volunteer, Thailand, 2005-2007

Everett Public Service Intern, Washington DC, 2004

Founder, Students Promoting Fair Trade, University of Virginia, 2003

Professional Training

Research Mentoring Course – University of Maryland, College of Behavioral and Social Sciences, 2018