

## Recai M. Yucel

### CONTACT INFORMATION

Department of Epidemiology and Biostatistics  
College of Public Health, Temple University  
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### EDUCATION

Post-Doctoral training (2000–2002) Statistics and Health Care Policy	Department of Health Care Policy Harvard Medical School, Boston, MA. Mentor: Alan M. Zaslavsky
Ph.D., Statistics (May, 2000)	The Pennsylvania State University, University Park, PA Thesis title: “Computational tools for missing values in multivariate longitudinal and clustered data” Mentor: Joseph L. Schafer
M.A., Statistics (Aug., 1996)	The Pennsylvania State University, University Park, PA.
B.S., Statistics (June, 1992)	Gazi University, Ankara, Turkey.

### PROFESSIONAL EMPLOYMENT & AFFILIATIONS

August 2020 – Present	Professor of Biostatistics and Assistant Director of Biostatistics Department of Epidemiology and Biostatistics College of Public Health Temple University Philadelphia, PA, USA.
September 2018 – August 2020	Chair and Professor of Biostatistics Department of Epidemiology and Biostatistics School of Public Health, University at Albany, SUNY Rensselaer NY, USA.
May 2017 – September 2018	Chair and Associate Professor of Biostatistics
July 2017–Present	Senior Fellow National Institute of Statistical Sciences Washington, DC.
Sep. 2012 – May 2017	Co-Director Statistical Core, Center for Social and Demographic Analysis University at Albany, SUNY Albany, NY, USA.
Sep. 2014 – Sep. 2015	Visiting Professor Department of Statistics Middle East Technical University Ankara, Turkey.

PROFESSIONAL EMPLOYMENT & AFFILIATIONS (CTD.)

- July 2011 – Present     Statistical Consultant  
Division of Pulmonary and Critical Care Medicine  
Albany Medical College  
Albany, NY, USA
- Sep. 2011 – May 2017     Associate Professor of Biostatistics  
Associate Chair for Biostatistics  
Department of Epidemiology and Biostatistics  
School of Public Health, University at Albany, SUNY  
Rensselaer NY, USA.
- Jan. 2008 – 2011     Assistant Professor of Biostatistics (tenure-track)  
Department of Epidemiology and Biostatistics  
School of Public Health, University at Albany, SUNY  
Rensselaer NY, USA.
- July 2008 – Present     Research Associate  
Center for Social and Demographic Analysis  
Center for the Elimination of Minority Health Disparities  
College of Arts and Sciences, University at Albany, SUNY  
Albany, NY, USA.
- Sep. 2004 –Dec. 2007     Assistant Professor of Biostatistics (tenure-track)  
Department of Biostatistics and Epidemiology  
School of Public Health and Health Sciences  
University of Massachusetts, Amherst MA, USA.
- Oct. 2002–Sep. 2004     Instructor in Medicine  
Institute for Health Policy  
Harvard Medical School (Massachusetts General Hospital)  
Boston MA, USA.

ONGOING RESEARCH AND TRAINING GRANTS & CONTRACTS

- 2019–2024 *The long-term impact of light intervention on sleep physiology and cognition in mild cognitive impairment*  
(PI: Figueiro, Sub-contract PI: Yucel) National Institutes of Health  
Subcontract budget: \$166,464 (direct \$107,743)  
10% effort (both academic year and summer)
- 2017–2021 *Fogarty Ukraine and Kazakhstan HIV Research and Training Program*  
(PI: Yucel) NIH Fogarty International Center  
*Role: PI*
- 2017–2021 *Prevalence Study Add-On to the Evaluation of the New York State Alzheimer’s Disease Caregiver Support Initiative* (PI : Gallant) DOH MOU  
*Role: Statistician*, 8% effort (both academic year and summer)  
Annual Project Budget: \$121,376 (direct \$103,170)
- 2019–2021 *Effectiveness and acceptance of the active RAD controller in nursing homes.* (PI: Page)  
(Role: Statistical consultant) National Institutes of Health  
10% effort (both academic year and summer)

## COMPLETED RESEARCH GRANTS & CONTRACTS

- 2017–2019 *Evaluation of Imputation Uncertainty in the National Household Education Survey*  
(PI : Yucel) National Center for Education Statistics and NISS  
*Role: PI, 10% effort (both academic year and summer)*
- 2014–2018 *Persistent Organic Pollutants and Cognitive Decline in the Elderly*  
R01 ES022652-01 (PI:Fitzgerald), NIH/NIEHS  
*Role: Co-Investigator*  
The goal of the proposed research is to address research gaps concerning the effects of selected persistent organic pollutants (POPs) on the nervous system of older adults. State-of-the-art statistical techniques tailored to handle missing data and correlated data are implemented.  
Project Budget \$1,501,162 direct costs. 10% effort (both academic year and summer)
- 2015–2017 *Study of Metals and Assisted Reproductive Technologies (SMART)*  
R56-ES023886-01A1 (PI: Michael S. Bloom) NIH/NIEHS  
*Role: Co-Investigator*  
This study will characterize variability of follicular fluid and seminal plasma heavy metals and anti-oxidant enzyme activities within and between 50 couples undergoing IVF treatment. It will also evaluate associations with IVF outcomes.  
Project Budget \$253,469 direct costs. 10% effort (summer)
- 2015–2017 *Mental Health Care Consumer Values and Preferences Regarding the Use of Provider Performance Data*  
Robert Wood Johnson Foundation, Project Number; 73049  
*Role: Co-Investigator*  
The goals of this research are (1) attitudes and preferences regarding the use of provider outcome/performance information, and (2) the relative values placed on providers' performance track record compared to other potentially important provider/treatment factors.  
Total budget: \$307,840 direct costs. 10% effort (both academic year and summer)
- 2014–2015 *Statistical analysis of complex incomplete data with ignorable and/or nonignorable*  
Research Fellowship Grant for International Researchers (program # 2221)  
The Scientific and Technological Research Council of Turkey  
*Role: PI 50% Academic year and summer*  
Overall theme of this work centered around multiple imputation inference in clustered data as well as computationally efficient algorithms for developing imputation models.
- 2009–2014 *Exploratory Center for the Elimination of Minority Health Disparities*  
P 20 MD 003373-01 (PI: Schell), NIH/NCMHD  
*Role : Co-investigator/Statistician*  
The main role is to provide statistical advice and guidance in the Research & Training Cores of the Center for the Elimination of Minority Health Disparities.  
Project budget: \$946,759, 10% effort (both academic year and summer)
- 2011–2012 *Upstate Health Research Network Data Security Protocol for the Analysis of New York State Data.*  
Fair Health Inc. and Office of the Attorney General, NY  
Project Title: Negative charges, Missing charges, Zero Charges  
*Role: PI*

COMPLETED RESEARCH GRANTS & CONTRACTS (CTD.)

The main purpose of this project is to create a transparent public database for determining reimbursement rates for out-of-network care for a given geozip and medical procedure. My particular project focuses on the issue of missing/negative or zero charges. With funding from this agency, I developed develop parametric and nonparametric techniques for producing rate tables in the presence of missing data. These techniques are based on the novel use of mixed-effects models modified to reflect unique complexities such as non-nested and nested clustering.

Project Budget: \$112,000 20% (both academic year and summer)

2011–2012 *Upstate Health Research Network Data Security Protocol for the Analysis of New York State Data.*

Fair Health Inc. and Office of the Attorney General, NY.

Project title : Representativeness of Ingenix claims data for NY State.

*Role: Co-investigator/Statistician*

This project developed Monte Carlo experiments to conduct tests on the representativeness of the datasets to be used by other investigators. Tools and methods developed in the “missing-data” part of the project (see above) will also be used here.

2009–2010 *Feasibility study of an alternative class of techniques for multiple imputation inference in realistically complex incomplete datasets.*

Junior researcher award, Center for Social and Demographic Analysis  
University at Albany.

*Role: PI*

The overall aim of this project is to conduct a feasibility study of sequential imputation using Bayesian sampling routines in complex data systems. Specifically, a comprehensive real-data-based simulation study is conducted to assess the performance of a variable-by-variable approach in developing imputation models. These structures include but are not limited to nested and non-nested clustered structures with item nonresponse and clustered administrative data with multiple cluster membership.

Project budget: \$ 11,800

2008–2010 *Augmenting NY Cancer Registry Data to Assess Breast and Colorectal Cancer Care.*

Centers for Disease Control and Prevention (PI: Schymura, Sub-contract PI: Yucel)

*Role: Co-investigator/Statistician*

This project’s principal aim is to bring diverse sources of data together to examine the quality of cancer care delivery, from early detection to survival.

To accomplish this, a unique linkage was made among the New York State Cancer Registry, New York State Medicaid program, New York State Hospital Discharge-Ambulatory Surgery data system, and Medicare claims. My role is to devise sound, practical and objective methods on missing cancer stage data for the New York Cancer Registry.

In addition, methods using missing-data and measurement error techniques are being implemented to draw overall statistical inferences from multiple data-sources.

Subcontract budget: \$ 41,024

COMPLETED RESEARCH GRANTS & CONTRACTS (CTD.)

- 2007–2009 *Private Sector Workplace Equal Employment Opportunity Progress 1966-2004*  
National Science Foundation (PI: Tomaskevic-Devey)  
*Role: Co-investigator*  
The overarching goal of this project was to analyze more than five million establishment-level, panel observations collected by the U.S. Equal Employment Opportunity Commission since 1966. The richness and complexity of these data required us to first investigate unresolved but generally important analytic problems for modeling dynamic outcomes associated with long-term panel data with multiple non-hierarchical clustering. I developed the modeling framework for both maximum likelihood estimation and imputation that addressed these complexities (e.g. overlapping nesting, multiple memberships in dynamic data). Substantively, we examined the organizational change in firms, industries, and local labor markets in the United States.  
Project budget: \$151,000.
- 2008–2009 *Infant Mortality, Black-White Disparities, State Social Policy*  
Kellogg Foundation (PI: Robinson)  
*Role: Consultant*  
I developed estimates using multilevel models, causal models and modern missing data techniques on disparities in infant mortality.  
Project budget: \$17,464
- 2006 *Mixed Models for Finite Populations*  
National Institute of Health (PI: Stanek)  
*Role: Co-Investigator*  
I introduced model-based routines for missing data and helped the PI adapting some of these methods to finite population settings. I also collaborated on the development of re-sampling-based missing-data methods.  
Project budget: \$331,392
- 2006–2007 *Methods for High Dimensional Data in HIV Research*  
National Institute of Health (PI: Foulkes)  
*Role: Co-Investigator*  
This project involved grouping individuals into genetic clusters with similar or identical multilocus genotypes. I helped the formulation of the unobservable alignment of alleles within chromosomal copies as the missing-data problem in haplotype-based investigations and developed the implied estimation and multiple imputation algorithms.  
Project budget: \$956,670
- 2002–2004 *Model-based approaches to item non-response in complex sample surveys and censuses.*  
American Statistical Association and National Center for Health Statistics  
(PI: Yucel)  
*Role: PI*  
This project extended general multivariate imputation techniques to multivariate multilevel data which are of particular interest to survey practitioners. These newly-developed methods were applied to several large-scale health surveys, including the National Health and Nutrition Examination Survey and the National Health Interview Survey.  
Project budget: \$240,000
- 2003–2006 *The public health of caregiving and disability.*  
Centers for Disease Control and Prevention (PI: Kuhlthau)  
*Role: Co-investigator/Statistician*  
I guided statistical analyses of survey data obtained under complex sample

APPLICATIONS PENDING OR SUBMITTED BUT NOT FUNDED (2018–2020 ONLY)

1. *Prenatal and Postnatal Modification of the Epigenome and Depression Risk Over the Life Course*, NIMH (PI: A Appleton)  
*Role: Co-Investigator*
2. *Targeting a Novel Bone Metastasis Signaling Pathway*, DoD CDMRP (PI: D. Conklin)  
*Role: Co-Investigator*
3. *Heart Rate Variability Biofeedback (HRVB) to Support Weight Loss by Dietary Modification*, NICCIH (PI: T. Udo)  
*Role: Co-Investigator*
4. *Socioeconomic Determinants, Physical Activity and Neighborhood as Deprivation Critical Contributors to Racial Disparities in Prostate Cancer Diagnosis and Death*, DoD, CDMRP (PI: E. Vasquez)  
*Role: Co-Investigator*
5. *Predicating Gun Carrying in Urban Young Adolescents: A Biopsychosocial Study*, NIH (PI: E. Gordis)  
*Role: Co-Investigator*
6. *Functional Impact of Disease-Associated HLA Class II Membrane Proximal Polymorphisms*, PI on subcontract to Albany Medical College, National Institutes of Health.
7. *Statistical methods for dynamic models using realistically complex data*, National Institutes of Health (PI: Yucel)  
*Role: PI*  
This project is currently being prepared for application for NSF and NIH funding.
8. *Environmental Disruptors of Ovulation in African American Women*, National Institutes of Health (PI: Bloom)  
*Role: Co-Investigator*
9. *Improving Nutrition for Low-Income Families using eHealth and CBPR* National Institutes of Health (PI: Jurkowski)  
*Role: Co-Investigator*
10. *Synergistic Effects of Preventive Measures and EHRs on Avoidable Hospitalizations* National Institutes of Health, AHRQ (PI: Yuchi)  
*Role: Co-Investigator*

PUBLICATIONS IN PEER-REVIEWED JOURNALS

*Statistical methods publications*(\* indicates students or post-doctoral fellows under supervision; \*\* indicates equal authorship, \*\*\* indicates senior authorship)

1. Meng, W \* and **Yucel, R.M.** (2019) Model-based inference on average causal effect in observational clustered data. *Health Services and Outcomes Research*, Volume 19, Issue 1, 39–60.
2. Tote, K, Bradley, H, Martin, E, **Yucel, R.M.**, Rosenberg, E (2019) Factors Associated with Incomplete Toxicology Reporting in Drug Overdose Deaths, 2010-2016, *Annals of Epidemiology*, Volume 38, 65–69.
3. **Yucel, R.M.**, Zhao, E \* Raghunathan, TE, Schenker, N. (2018) Sequential hierarchical regression imputation. *Journal of Survey Statistics and Methodology*, Volume 6, Issue 1, 1-22 (lead paper).
4. Inan, G \* and **Yucel, R.M.** (2017) Multivariate longitudinal incomplete binary outcomes within joint GEEs framework. *Journal of Applied Statistics*, Volume 44, Issue 11, 1920–1937.
5. **Yucel, R.M.** (2017) Impact of the non-distinctness and non-ignorability on the inference by multiple imputation in multivariate multilevel data: A simulation assessment. *Journal of Statistical Computation and Simulation*, Volume 87, Issue 9, 1813–1826.
6. **Yucel, R.M.** (2014) R **mlmmm** package: Fitting multivariate linear mixed-effects models with missing values. *Turkish Clinics Journal of Biostatistics*, Volume 7, Issue 1, 11–24.
7. Karakaya, J. \* , Karabulut, E. and , **Yucel R.M.**\*\*\* (2014) Sensitivity to imputation models and assumptions in ROC analysis with incomplete data. *Journal of Statistical Computation and Statistics*. DOI: 10.1080/00949655.2014.983111.
8. **Yucel, R.M.**, Yulei, H. and Zaslavsky, A.M. (2011) Gaussian-based routines to impute categorical variables in health surveys. *Statistics in Medicine*, Volume 30, Issue 29, 3447–3460.
9. **Yucel, R.M.** (2011) Inference by multiple imputation under random coefficients and random covariances model. *Statistical Modelling*, Vol. 11 No. 4, 351–370
10. Yulei, H., **Yucel, R.M.** and Raghunathan , T.E. (2011) A Functional Multiple Imputation Approach to Incomplete Longitudinal Data. *Statistics in Medicine*, Volume 30, Issue 10, 1137–1156.
11. **Yucel, R.M.** and Demirtas, H. (2010) Impact of non-normal random effects on inference by multiple imputation: a simulation assessment. *Computational Statistics and Data Analysis*. Volume 54, Issue 3, 790–801.

12. **Yucel, R.M.**, He, Y. and Zaslavsky, A.M. (2008) Using calibration to improve rounding in multiple imputation. *The American Statistician*, Volume 62, Number 2, 125–129.
13. **Yucel, R.M.** (2008) Multiple imputation inference from multivariate multilevel continuous data with ignorable nonresponse. *Philosophical Transactions of the Royal Society, Series A*, Volume 366, No 1874, 2389–2403.
14. He, Y., **Yucel, R.M.** and Zaslavsky A.M. (2008) Misreporting, missing data, and multiple imputation: improving accuracy of cancer registry databases. Invited editorial for the health policy section in *Chance*, Volume 21, Number 3, 55–58.
15. Foulkes, A.S., **Yucel, R.M.**, and Li, X. (2008) Mixed modelling with ambiguous clusters: a likelihood-based approach. *Biostatistics*, Volume 9, No 4, 635–657 (doi:10.1093/biostatistics/kxm055).
16. Foulkes, A.S., **Yucel, R.M.**, Reilly, M.P. (2008) Mixed modeling and multiple imputation for unobservable genotype clusters. *Statistics in Medicine*, Volume 27, No 15, 2784–2801.
17. Demirtas, H., Freels, S.A., **Yucel, R.M.** (2008) The plausibility of multivariate normality assumption when multiply imputing non-gaussian continuous outcomes: a simulation assessment. *Journal of Statistical Computation and Simulation*, Volume 78, Issue 1, 69-84.
18. Li, X., Foulkes, AS., **Yucel, R.M.**; and Rich, Stephen M. (2007) An expectation maximization approach to estimate malaria haplotype frequencies in multiply infected children. *Statistical Applications in Genetics and Molecular Biology*, Volume 6, Issue 1, Article 33.
19. **Yucel, R.M.** and Zaslavsky, A.M. (2005) Imputation of binary treatment variables with measurement error in administrative data. *Journal of the American Statistical Association*, Volume 100, No. 472, 1123–1132.
20. Chiu, W.F., **Yucel, R.M.**, Zanutto, E., Zaslavsky, A.M. (2005) Using matched substitutes to improve imputations for geographically linked databases. *Survey Methodology*, Volume 31, Number 1, 65–72.
21. \*\* Schafer, J.L. and **Yucel, R.M.** (2002) Computational strategies for multivariate linear mixed-effects models with missing values. *Journal of the Computational and Graphical Statistics*, Volume 11, Number 2, 437–457.

Editorials, invited book reviews and letters

22. Zou, K.H., **Yucel, R.M.**, Paddock, S.M., Yoon, F. (2016) Statistical Science at the Forefront of Health Policy Research: Two ICHPS 2015 Special Issues. *Health Services and Outcomes Research Methodology*. Volume 16, Issue 3, 1–3.
23. Zou, K.H. and **Yucel, R.M.** (2015) Highlights from the 11th International Conference on Health Policy Statistics: Statistical Science at the Forefront of Health Policy Research, *Amstat News*, Issue #462.

24. **Yucel, R.M.** (2012) Dissemination of Missing Data Techniques in Medical, Biomedical and Social Research. *J Biomet Biostat* 3:e105. doi:10.4172/2155-6180.1000e105.
25. **Yucel, R.M.** (2011) State of the multiple imputation software. *Journal of Statistical Software*, Vol. 45, Issue 1.
26. **Yucel, R.M.**, He, Y. and Zaslavsky, A.M. (2008) Rejoinder to “Using calibration to improve rounding in multiple imputation”. *The American Statistician*. Volume 62, No 4, 364–366.
27. **Yucel, R.M.** (2008) Review of the “Missing Data in Clinical Studies” by Molenberghs and Kenward. *Journal of the American Statistical Association*, 103(484), 1717–1718.

Subject-matter collaborative publications

28. Medarov, B, Pluto, L, Fina, L, Ilyas, F, Sukhu, I, **Yucel, RM**, Judson, MA. Assessing the reliability of obstructive sleep apnea screening instruments in isolation or in combination. Forthcoming in *Respiratory Medicine*.
29. Butts, CD\*, Bloom MS, McGough A, Lenhart N, Wong R, Mok-Lin, E, Parsons PJ, Galusha, AJ, **Yucel, RM**, Feingold, BJ, Browne, RW, Fujimoto, VY. Seafood consumption is associated with greater follicular fluid (FF) arsenic (As) and mercury (Hg) concentrations in women undergoing IVF. Forthcoming in *Environmental Research*.
30. Figueiro, MG, Steverson, B, Haerwagen, J, **Yucel, RM**, Roohan, C, Sahin, L, Kampschroer, Rea, MS (Forthcoming) Light, entrainment and alertness: A case study in offices. *Lighting Research & Technology*.
31. Shkolnik B, Judson MA, Austin A, Hu K, D’souza M, Zumbrunn A, Huggins, JT, **Yucel, RM**, Chopra, A. Role of thoracic ultrasonography in narrowing the diagnosis of a pleural effusion. Forthcoming in *Chest*.
32. Tanner, E\*, Bloom, M, Kannan, K, Lynch, J, Wang, W, **Yucel, RM**, Fitzgerald, E. (2020) A Longitudinal Study of Polychlorinated biphenyls and Neuropsychological Function Among Older Adults from New York State. *International Journal of Hygiene and Environmental Health*, Volume 223, Issue 1, 1–9.
33. Friedman, SR, **Yucel, RM**, Wynn, CE\* and Gibbons, JR (2019) Muslim/Non-Muslim locational attainment in Philadelphia: a new fault line in residential inequality? *Demography*, 56(4):1327-1348.
34. Savadatti, S\*, Bell, EM, Hosler, AS, Gates, M, **Yucel, RM**, Ranjita, M (2019) The association of health promotion behaviors and heart disease status among Asian Indians in the United States. *Ethnicity and Health*, 25(1):45-52.
35. Judson, MA, Preston, S, Hu, K, Zhang, R, Jou, S, Modi, A, Sukhu, I, Ilyas, F, Rosoklija, G, **Yucel, RM** \* (2019) Quantifying the relationship between symptoms at presentation and the prognosis of sarcoidosis. *Respiratory Medicine*, Volume 152, 14–19.

36. Bloom, M, Wenzel, A, Jiyessova, A, Unal, E, Kucklick, J, Brock, JW, Cruze, C, Wineland, R, **Yucel, RM**, Newman, R. (2019) Racial Disparity in Maternal Phthalates Exposure; Association with Racial Disparity in Fetal Growth and Birth Outcomes. *Environment International*, 127:473-486.
37. Jaitovich, A., Khan M, Itty, R, Chieng, H, Nadendla, P, Fantauzzi, F, **Yucel, RM**, Feustel, PJ, Judson, MA. (2019) ICU admission skeletal muscle mass and survival: a prospective cohort study. *Chest*, 155(2):322-330.
38. Schell, LM, Gallo, M, Pfeiffer, S, Lee, F, Garry, D, **Yucel, RM**, and Akwesasne Task Force on the Environment Akwesasne Task Force on the Environment (2019) Trends in height, weight, BMI, skinfolds, and measures of overweight and obesity from 1979 through 1999 among American Indian Youth: The Akwesasne Mohawk. *International Journal of Obesity*, doi: <https://doi.org/10.1038/s41366-019-0349-5>
39. Judson, MA, Modi, A, Ilyas, F, **Yucel, RM** (2018) Repository corticotropin injection (ACTHar gel) for the treatment of sarcoidosis-induced hypercalciuria and vitamin D dysregulation: A pilot, open label study. *Sarcoidosis Vasculitis and Diffuse Lung Disease*, Volume 35, 192-197.
40. James, WE, Koutroumpakis, E, Saha, B, Nathani, A, Saavedra, L, **Yucel RM**, Judson, MA (2018) Clinical Features of Extrapulmonary Sarcoidosis Without Lung Involvement. *Chest*, 154(2), 349–356.
41. Tanner, EM\*, Bloom, MS, Kannan, K, **Yucel, RM**, Shrestha, S, Fitzgeralds, EF (2018) Occupational Exposure to Perfluoroalkyl Substances and Serum Levels of Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) in an Aging Population from upstate New York: A Retrospective Cohort Study. *International Archives of Occupational and Environmental Health*, 91(2):145-154.
42. Boswell, J.F., Constantino, M.J., Oswald, J.M., Bugatti, M., Goodwin, B., **Yucel, R.M.** (2018) Mental Health Care Consumers' Relative Valuing of Clinician Performance Information. *Journal of Consulting and Clinical Psychology*, Volume 86, 301–308.
43. Judson, MA, Chopra, A, Conuel, E, Koutroumpakis, E, Schafer, C, Austin, A, Zhang, R, Cao, K, Berry, R, Khan, M, Modi, A, Jou, S, Furqan, I, **Yucel, RM**. (2017) The Assessment of Cough in a Sarcoidosis Clinic Using a Validated instrument and a Novel Visual Analog Scale. *Lung*, 195(5):587-594.
44. Savadatti, SS\*, Bell, E M, Gates, MA, Hosler, AS, **Yucel, RM**, Misra, R. (2019) Health promoting lifestyle measures among Asian Indians with metabolic syndrome in the U.S. *Journal of Public Health Management and Practice*. 25(1):45–52.doi: 10.1097/PHH.0000000000000738.
45. Shresthaa, S \*, Blooma, MS, **Yucel, RM**, Seegal, RF, Rej, R, McCaffrey, RJ, Wu, Q, Kannan, K, Fitzgerald, EF. (2017) Perfluoroalkyl Substances, Thyroid Hormones, and Neuropsychological Status in Older Adults. *Int J Hyg Environ Health*. 220(4):679-685. doi: 10.1016/j.ijheh.2016.12.013.

46. Hubo, H, Foulke, L, Jennings, T, Koutroumpakis, E, Dalvi, S, Chaudry, H, Chopra, A, Modi, A, Prtezzant, D, Sheehan, C, **Yucel, RM**, Patel, M, Judson, M. (2017) The role of serum amyloid A staining of granulomatous tissues for the diagnosis of sarcoidosis. *Respiratory Medicine*, Volume 126, 1–8.
47. Kim, K\*, Bloom MS, Browne, RW, Bell, EM, **Yucel, RM**, Fujimoto, VY. (2017) Associations between follicular fluid high density lipoprotein particle components and embryo quality among in vitro fertilization patients. *Journal of Assisted Reproduction and Genetics*, Volume 34, Issue 1, 1–10.
48. Shresthaa, S\*, Bloom, MS, **Yucel, RM**, Seegal, RF, Ref, R, McCaffrey, R, Fitzgerald, EF. (2016) Thyroid Function and Neuropsychological Status in Older Adults. *Physiology & Behavior*. 164: 34-39.
49. Keewan, K\*, Bloom, MS, Fujimoto, VY, Bell, EM, Yucel, RM, Browne, RW. (2016) Variability in follicular fluid high density lipoprotein particle components measured in ipsilateral follicles. *Journal of Assisted Reproduction and Genetics*, Volume 33, Issue 3, 423–430.
50. Young, Y, Kalamaras, J\*, Kelly, L, Hornick D, **Yucel, R** (2015) Is Aging in Place Delaying Nursing Home Admission? *Journal of the American Medical Directors Association*. 16(10):900.e1-6. doi: 10.1016/j.jamda.2015.07.017.
51. Judson, MA, Chaudhry, H, Louis, A, Lee, K, **Yucel, RM\*\*\*** (2015) The Effect of Corticosteroids on Quality of Life in a Sarcoidosis Clinic: The results of a propensity analysis. *Respiratory Medicine*, Volume 109, Issue 4, 526–531.
52. Shresthaa, S\*, Bloom, MS, **Yucel, RM**, Seegal, RF, Kannan, K, Rej, R, Fitzgerald, EF. (2015) Perfluorinated Compounds and Thyroid Function in Older Adults. *Environmental International*, volume 75, 206–214.
53. Insaf, TZ\*, Shaw, BA, **Yucel, RM** and Strogatz, DS (2014) Lifecourse Socioeconomic Position and Racial Disparities in BMI Trajectories among Black and White Women: Exploring Cohort Effects in the Americans Changing Lives Study. *Journal of Racial and Ethnic Health Disparities*, Volume 1, Issue 4, 309–318.
54. Insaf TZ\*, Shaw BA, Yucel R, Chasan-Taber L, Strogatz D. (2014) Lifecourse Socioeconomic Position and 16 Year Body Mass Index Trajectories: Differences by Race and Sex. *Preventive Medicine*, Volume 67, 17–23.
55. Insaf TZ\*, Strogatz DS, Yucel RM, Chasan-Taber, L. and Shaw, BA (2014) Associations between race, lifecourse socioeconomic position and prevalence of diabetes among US women and men: results from a population-based panel study. *J Epidemiol Community Health*, Volume 68, Issue 4, 318–325.
56. Kalkanis, A, Yucel, RM, Judson, MA (2013) The Internal Consistency of PRO Fatigue Instruments in Sarcoidosis: Superiority of the PFI over the FAS. (Submitted in July 2012, revised and resubmitted in Jan 10, 2013, accepted on Jan 24, 2013) *Sarcoidosis Vasculitis and Diffuse Lung Diseases*, 30(1):60–4.

57. Severcan, F., Akkas, S.B., Turker, S., **Yucel, R.M.** (2012) Methodological Approches From Experimental to Computational Analysis in Vibrational Spectroscopy and Microspectroscopy.
58. Haley, VB\*, Van Antwerpen, C., Tsivitis, M., Doughty, D., Gase, K., Hazamy, P., Tserenpuntsag, B., Racz, M., **Yucel, R. M.**, McNutt, L.-A., Stricof, R. (2012) Surveillance of coronary artery bypass graft surgical site infections in New York state, 2008. *American Journal of Infection Control*, Volume 40, 22–28.
59. Guzman MP, Jellinek M, George M, Hartley M, Squicciarini AM, Canenguez K, Kuhlthau K, **Yucel RM**, White G, Guzman J, Murphy JM. (2011) Mental health matters in elementary school; First grade screening predicts fourth grade achievement test scores. *European Child and Adolescent Psychiatry*, 20(8):401–411.
- Reprint:*
- Guzman, M. P., Jellinek, M., George, M., Hartley, M., Squicciarini, A. M., Canenguez, K.M., Kuhlthau, K., Yucel, R., White, G., Guzman, J., Murphy, J.M. (2011) (Lotterer, S & Guzman, J (translators)) . La Salud mental importa en la educacin bsica: pesquisa en 1 bsico predice rendimiento acadmico en SIMCE de 4 bsico. *Revista Chilena de Psiquiatria y Neurologia de la Infancia y Adolescencia*, In press.
60. Gordon, E.J., Prohaska, T.R., Gallant, M.P., Sehgal, A.W., Strogatz, D., **Yucel, R.M.**, Conti, D. and Siminoff, A.S. (2009) Longitudinal analysis of physical activity, fluid intake, and graft function among kidney transplant recipients. *Transplant Journal*, Volume 22, Issue 10, 990–998.
61. Co, J.P.T., **Yucel, R.M.**, MacDonald, E., Ferris, T.G. (2009) Priorities for Improvement in Pediatric Ambulatory Care. *Ambulatory Pediatrics*, Volume 9, Issue 1, 47–52.
62. Tang, M., Hill, K.S., **Yucel, R.M.**, Perrin, J.M., Kuhlthau, K.A. (2008) Medicaid Managed Care and the Unmet Need for Mental Health Care among Children with Special Health Care Needs. *Health Services Research*, Volume 43, Issue 3, 882–900.
63. Kim, M., Betancourt, J., Ayanian, J., Zaslavsky, A.M., **Yucel, R.M.**, Weissman, J.S. (2008) Access to Care and Use of Preventive Services by Hispanics State-Based Variations From 1991 to 2004. *Medical Care*, Volume 46, Issue 5, 507–515.
64. Hill, K., Freeman, L., **Yucel, R.M.**, Kuhlthau, K. (2008) Unmet need among children with special care needs in Massachusetts. *Maternal and Child Health Journal*, Volume 12, Issue 5, 650–661.
65. Shields, A.E., Levy, D.E., Blumenthal, D., Currivan, D., McGinn-Shapiro, M., Weiss, K.B., **Yucel, R.M.**, and Lerman, C. (2008) Anticipating complexity: Primary care physicians’ willingness to offer a new genetic test to tailor smoking treatment according to test characteristics. *Nicotine & Tobacco Research*, Volume 10, Issue 6, 1037–1045.
66. Gnanasekaran, S.K., Boudreau, A.A., Soobader, M., **Yucel, R.M.**, Hill, K. and Kuhlthau, K. (2008) State policy environment and delayed or forgone care among

children with special health care needs. *Maternal and Child Health Journal*, Volume 12, Number 6, 739–746.

67. Kuhlthau, K., Hill, K., Fluet, C., Meara, E., **Yucel, R.M.** (2008) Correlates of therapy use and expenditures in children in the United States. *Developmental Neuropsychology*, Volume 11, Issue 2, 115–123, doi: 10.1080/17518420701605627.
68. Zheng, H., **Yucel, R.M.**, Ayanian, J.Z., Zaslavsky, A.M. (2006) Profiling Providers on Use of Adjuvant Chemotherapy by Combining Cancer Registry and Medical Record Data. *Medical Care*, Volume 44, Issue 1, 1–8.
69. Vogeli, C., **Yucel, R.M.**, Bendavid, E., Jones, L.M., Anderson, M.S., Louis, K.S., Campbell, E.G. (2006) Data withholding and the next generation scientists: results of a national survey. *Academic Medicine*, Volume 81, Issue 2, 128–136.
70. Blumenthal, D., Campbell, E.G., Gokhale, M., **Yucel, R.M.**, Clarridge, B., Hilgartner, S., Holtzman, N.A. (2006) Data withholding in genetics and the other life sciences: prevalence and predictors. *Academic Medicine*, Volume 81, Issue 2, 137–145.
71. Kuhlthau, K.A., Hill, K.S., **Yucel, R.M.**, Perrin, J.M. (2005) Financial burden for families of children with special health care needs. *Maternal and Child Health Journal*, Volume 9, Number 2, 207–218.
72. Campbell, E.G., Weissman, J.S., Clarridge, B., **Yucel, R.M.**, Blumenthal, D. (2003) Characteristics of faculty serving on IRBs: Results of a national survey of medical faculty. *Academic Medicine*, Volume 78, 831–836.
73. Weissman, J.S., Moy, E., Campbell, E.G., Gokhale, M., **Yucel, R.M.**, Blumenthal, D. (2003) Limits to the safety net: Teaching hospital faculty report on their patients' access to care. *Health Affairs*, Volume 22, Number 6, 156–166.  
*Proceeding papers and technical reports (non-refereed)*
74. Wu, M. and **Yucel, R.M.** (2011) Model-based (potential outcome) estimation of ACE and its variance in clustered data. *Proceedings of the Survey Research Methods Section of the American Statistical Association*.
75. **Yucel, R.M.** (2009) Imputation of ordinal variables using Gaussian-based routines. *Proceedings of the Survey Research Methods Section of the American Statistical Association*.
76. \*Zhao, E. and **Yucel, R.M.** (2009) On the compatibility of sequential hierarchical regression imputation. *Proceedings of the Survey Research Methods Section of the American Statistical Association*.
77. **Yucel, R.M.**, Ding, H., Uludag, A.K., Tomaskovic-Devey, D. (2008) Multiple imputation in multiple classification and multiple-membership structures. *Proceedings of the Section on Bayesian Statistical Science of the American Statistical Association*.

78. **Yucel, R.M.** and Raghunathan, T.E. (2006) Sequential imputation using hierarchical regression. *Proceedings of the Health Policy Statistics Section of the American Statistical Association.*
79. **Yucel, R.M.** and Zaslavsky, A.M. (2004) Practical suggestions on rounding in multiple imputation. *Proceedings of the Survey Research Methods Section of the American Statistical Association*, 4679–4683.
80. **Yucel, R.M.** and Zaslavsky, A.M. (2001) Imputation of binary responses with measurement error for treatments in health services data. *Proceedings of the Health Policy Statistics Section of the American Statistical Association.*
81. Calvin, C., **Yucel, R.M.**, Zanutto, E., Zaslavsky, A.M. (2001) Using matched substitutes to improve imputations for geographically linked databases. *Proceedings of the Survey Research Methods Section of the American Statistical Association.*
82. **Yucel, R.M.** and Schafer, J.L. (1999) Parameter estimation in multivariate linear mixed models with possible missing values. *Technical report No 99-36.* The Methodology Center, The Pennsylvania State University, University Park, PA.
83. Schafer, J.L. and **Yucel, R.M.** (1998) Fitting multivariate linear mixed models with incomplete data. *Proceedings of the Statistical Computing Section of the American Statistical Association*, 177–182. (Condensed from TR# 99-36)

Publications: Currently under review

1. **Yucel, RM**, Robertson, T\*, Schenker, N, Raghunathan, TE. Assessing Imputation Uncertainty in the National Household Education Survey. Under review in *Journal of Educational and Behavioral Statistics.*
2. Fernandez, D , Gin-Vzquez, I, Liu I, **Yucel, RM**, Nai RM, Morena M, Garca, VG, Haro JM, Chatterji S., Pan W, Tyrovolas S. Are environmental factors and biodiversity level associated to the spread and mortality of COVID-19? A four-month global analysis.
3. Akkaya-Hocagil \*, T and **Yucel, RM.** Computationally-efficient sequential hierarchical regression imputation. Under review in *Computational Statistics and Data Analysis.*
4. Meng, W \* and **Yucel, RM.** Estimation of average causal effect in clustered data using multiple imputation. Under review in *Statistics in Medicine.*
5. Robertson, TW\*, Meng, W\*, Miller, LS, Schettine, AM, **Yucel, RM**, Manganello, JA, and Cogan, LW Association Between Health Literacy, Perceptions of Health, and Health Care among New York State Medicaid Members.

Publications: About to be submitted or in progress

1. **Yucel, RM** and **Kalaylioglu, Z** Sequential Imputation using Marginal Models.

2. **Yucel, R.M.**, Tomaskovic-Devey, D. Multiple imputation in multiple classification and multiple-membership structures. Under review in Journal of Applied Statistics.
3. Meng, W \*, Josberger, RE, **Yucel, R.M.** Estimation of average causal effect in clustered data with measurement errors.
4. Cogan, LW, Muse, AG, Weller, W, **Yucel, R.M.**, McClamroch, K, Kacica, MA Use of Administrative Data to Estimate the Prevalence of Chlamydia among Young Women in New York State Medicaid Managed Care.
5. **Yucel, R.M.**, Boscoe, F, Schymura, M. Multiple imputation inference for ordinal clustered data using multivariate linear mixed-effects models with calibration: Application to incomplete cancer staging.
6. **Yucel, R.M.** Improving coherence of sequential imputation by calibration.
7. **Yucel, R.M.** Logistic mixed-effects models with ambiguous cluster membership.

#### SOFTWARE AUTHORED

- MLMMM** Parameter estimation routines under a multivariate linear mixed-effects model with missing values. Routines described in Schafer and Yucel (2002) and Yucel (2014). Further documentation is available at <http://cran.r-project.org/web/packages>.
- MLD.IMP** Multiple imputation of multivariate multilevel data under a random-effects, random-covariances model. In preparation.
- SHRIMP** R package for sequential hierarchical regression imputation. In preparation.
- fourMC** R package for MI and ML in multiple-classification and multiple-membership structures. In preparation.

INVITED SEMINARS, WORKSHOPS, SHORT COURSES AND KEYNOTE LECTURES

- August 2017 “Calibration-based routines for multiple imputation inference in complex surveys”  
Joint Statistical Meetings, Baltimore, MD, USA
- October 2015 “Computational-efficient algorithms for multiple imputation for correlated categorical data,” Department of Statistics, Middle East Technical University
- September 2014 “Pragmatic approaches to building multiple imputation models in complex data structures”  
Keynote lecture at the XVI. National Biostatistics Conference, Antalya, Turkey.
- June 2013 “Calibration-based sequential multiple-imputation”  
International Chinese Statistical Association Meetings,  
Virginia, Washington DC, USA.
- Oct. 2013 “Calibration-based sequential multiple-imputation”  
University of Connecticut, Department of Statistics,  
Stors, Connecticut, USA.
- Oct. 2011 “Improving the coherence of sequential imputation via calibration”  
International conference on health policy statistics,  
Cleveland, Ohio, USA.
- April 2010 “Gaussian-based routines for imputing clustered categorical data”  
New England Statistical Symposium, Department of Statistics,  
Harvard University, MA, USA.
- April 2010 “Analysis of incomplete longitudinal data”  
School of Social Welfare, University at Albany, Albany, NY, USA.
- December 2009 “Calibration-based inference for incompletely-observed ordinal variables using Gaussian-based routines.” Department of Biostatistics and Epidemiology,  
University of Massachusetts, Amherst, MA, USA.
- July 2009 “MCMC-based routines for handling missing data in panel data”  
Department of Statistics, Middle East Technical University, Ankara, Turkey.
- January 2009 “Inference via multiple imputation in multiple classification and multiple-membership structures.” Albany Chapter of American Statistical Association,  
Albany, NY, USA.
- May 2009 “Missing data in longitudinal studies”  
Workshop taught at the 5<sup>th</sup> Conference of the Eastern Mediterranean  
Region of the International Biometric Society.  
Istanbul, Turkey.
- June 2008 “Practice of modern missing data methods”  
Annual Research Meeting, Academy Health. Washington, DC, USA.
- May 2008 “Missing data methods: theory, practice and software”  
Center for Social and Demographic Analysis, University at Albany,  
SUNY, Albany, NY, USA.
- April 2008 “Introduction to missing data methods”  
Schneider Institute for Health Policy, Brandeis University, MA, USA.

INVITED SEMINARS, WORKSHOPS, SHORT COURSES AND KEYNOTE LECTURES (CTD.)

- April 2008 “Issues with missing data”, Invited discussant. AdvaMed/FDA Statistics Conference, Bethesda, DC, US.
- June 2007 “Using multiple imputation in the analysis of incomplete data: A practitioner’s perspective”, workshop on statistical methods for missing multivariate data, Annual Research Meeting, Academy Health. Orlando, FL, USA.
- April 2007 “Strategies for developing imputation models for multivariate multilevel incomplete data”, New England Statistics Symposium, University of Connecticut Storrs, CT, US.
- March 2007 “Missing data and associated software”  
Harvard Clinical Research Institute, Statistical Seminar Series  
“Key Statistical Methods for Clinical Trials“, Harvard Medical School, Boston, MA, USA.
- October 2006 “Multiple imputation for incomplete multilevel data with SHRIMP“  
Conference on “New Methods for the Analysis of Family and Dyadic Processes“  
organized by the Center for Research on Families,  
University of Massachusetts, Amherst, MA, USA.
- June 2006 “Sequential hierarchical regression imputation”  
Department of Statistics, Middle East Technical University. Ankara, Turkey.
- April 2006 “Missing data in cluster samples: Design-based and Bayesian perspectives”  
Department of Statistics, University of Connecticut.
- March 2006 “Missing data in cluster samples: Design-based and Bayesian perspectives”  
ENAR Meetings, Tampa, Florida
- June 2006 “Statistical analysis of multivariate incomplete data”  
Department of Economics, TOBB Economy and Technology University .  
Ankara, Turkey
- Jan. 2006 “What to do about missing data: tools for practitioners”  
The Center for Research on Families, University of Massachusetts,  
Amherst, MA, USA.
- Oct. 2005 “SHRIMP: sequential hierarchical regression imputation”  
International Conference on Health Policy Research, Boston, MA, USA.
- April 2005 “Multiple imputation using multivariate hierarchical models and  
sequential hierarchical models”  
Department of Mathematics and Statistics, UMass, Amherst, MA, USA.
- Aug. 2004 “Practical suggestions on rounding in multiple imputation”  
Joint Statistical Meetings, Toronto, Canada.
- Aug. 2003 “Imputation of binary treatment variables with measurement error in  
administrative data.” International Conference for Health Policy  
Research, Chicago, IL.
- Jan. 2003 “PAN-PLUS : Software for multiple imputation inference for incomplete  
multilevel data.” International Biometric Society, Antalya, Turkey.

INVITED SEMINARS, WORKSHOPS, SHORT COURSES AND KEYNOTE LECTURES (CTD.)

- Jan. 2003 “Imputation of binary responses with measurement error for treatments in health services data.” International Biometric Society, Antalya, Turkey.
- Nov. 2002 “Flexible imputation techniques for incomplete multivariate multilevel data.” National Center for Health Statistics, Hyattsville, MD.
- Aug. 2002 “Computational strategies for handling missing values in panel surveys.” Koc University, Istanbul, Turkey.
- Aug. 2002 “Data augmentation strategies in multivariate multilevel incomplete data.” Joint Statistical Meetings, New York, NY.
- May. 2002 “Data accuracy problems and solutions for California Cancer Registry Database.” Harvard University, Boston, MA.
- May. 2002 “Using matched substitutes to improve imputations for geographically linked databases.” Harvard University, Boston, MA.
- Dec. 2001 “Flexible imputation techniques for incomplete multivariate multilevel data.” Brown University.
- Nov. 2001 “Computational tools for missing values in multivariate multilevel data.” Harvard University.
- Oct.-Dec. 2001 “Imputation techniques for incomplete multivariate multilevel data.” Department of Biostatistics, Harvard School of Public Health. Boston, MA, USA.
- Oct.-Dec. 2001 “Statistical methods and software for analyzing multivariate incomplete data.” Harvard Medical School (workshop of four parts). Boston, MA, USA.

CONTRIBUTED PAPERS PRESENTED AT PROFESSIONAL MEETINGS

- March 2017 **Yucel, R.M** and Liu, Gang\* “Multiple Imputation Inference for Multilevel Data with Missing Values: Application of Marginalized Multilevel Model.” ENAR 2017, Washington, DC.
- March 2017 **Yucel, R.M** and Akkaya-Hocagil, T\* “Improved Model Fitting Procedures for Multiple Membership Data Structures in Multilevel Models.” ENAR 2017, Washington, DC.
- March 2016 **Yucel, R.M** and Kalaylioglu, Z. “Sequential Imputation Using Marginal Models” ENAR 2016, Austin, TX.
- March 2016 **Yucel, R.M** and Akkaya-Hocagil, T\* “Feasibility of Variable-By-Variable Imputation in Clustered Data with Multiple Membership” ENAR 2016, Austin, TX.
- Aug. 2009 **Yucel, R.M.**, Yulei, H. and Zaslavsky, A.M. “Imputation of ordinal variables using Gaussian-based routines.” Joint Statistical Meetings, Washington, DC.
- Aug. 2009 Zhao, E. and **Yucel, R.M.** “On the compatibility of sequential hierarchical regression imputation.” Joint Statistical Meetings, Washington, DC.
- Aug. 2008 **Yucel, R.M.** “Inference via multiple imputation in multiple classification and multiple-membership structures.” Joint Statistical Meetings, Denver, CO.
- April 2007 Foulkes, A.S., **Yucel, R.M.**, and Li, X. “Gene association studies using mixed models with ambiguous clusters”, European Mathematical Genetics Meeting, Heidelberg, Germany. (peer-reviewed)
- Dec. 2005 Hill, **Yucel, R.M.**, Kuhlthau, K. “Measuring childhood disability: The International Classification of Functioning, Disability and Health (ICF) and the CSHCN Screener in the Medical Expenditure Panel Survey”, American Public Health Association, Philadelphia, PA.
- Aug. 2003 Khare, M., **Yucel, R.M.** “A comparison of conventional estimates of vaccination coverage with estimates obtained from multiply imputed dataset using available software for multiple imputation” Contributed paper presented at the Joint Statistical Meetings, San Francisco, CA.
- Aug. 2003 **Yucel, R.M.**, Schenker, N., Raghunathan, T.E. “Multiple imputation using sequential hierarchical regression models” Contributed paper presented at the Joint Statistical Meetings, San Francisco, CA.
- Aug. 2001 **Yucel, R.M.** and Schafer, J.L. “Software for multiple imputation of multivariate panel and clustered data.” Contributed paper presented at the Joint Statistical Meetings, Atlanta, GA.
- Aug. 2001 **Yucel, R.M.** and Zaslavsky, A.M. “Imputation of binary responses with measurement error for treatments in health services data.” Contributed paper presented at the Joint Statistical Meetings, Atlanta, GA.
- Aug. 2001 Calvin, C., **Yucel, R.M.**, Zaslavsky, A.M., Zanutto, E. “Using matched substitutes to improve imputations for geographically linked databases.” Contributed paper presented at the Joint Statistical Meetings, Atlanta, GA.

CONTRIBUTED PAPERS PRESENTED AT PROFESSIONAL MEETINGS (CTD.)

- June 2000 **Yucel, R.M.** and Schafer, J.L. "Flexible imputation techniques for incomplete longitudinal or multilevel data." Invited paper presented at the 8<sup>th</sup> Annual Society for Prevention Research Conference, Montreal, Canada.
- Aug. 1999 **Yucel, R.M.** and Schafer, J.L. "Computational methods for multivariate longitudinal and clustered data with missing values." Contributed paper presented at the Joint Statistical Meetings, Baltimore, MD.
- June 1999 **Yucel, R.M.** and Schafer, J.L. "Methods for missing values in multivariate longitudinal and clustered data." Invited poster presented at the 7<sup>th</sup> Annual Society for Prevention Research Conference, New Orleans, LA.
- Oct. 1998 Schafer, J.L. and **Yucel, R.M.** "Multiple imputation with PAN." Invited paper presented at the New Methods for the Analysis of Change Conference, The Pennsylvania State University, University Park, PA
- Aug. 1998 **Yucel, R.M.** and Schafer, J.L. "Fitting multivariate linear mixed models with incomplete data." Contributed paper at the Joint Statistical Meetings, Dallas, TX.
- Aug. 1997 **Yucel, R.M.** and Schafer, J.L. "A rapidly mixing MCMC algorithm for the general linear mixed model." Contributed paper at the Joint Statistical Meetings, Anaheim, CA.

## SERVICE TO THE PROFESSION

- **Associate Editor**, *Statistics in Medicine* (2017–present)
- **Co-Editor**, *Health Services and Outcomes Research Methodology* (2014–2016)
- **Co-Chair**, *2015 International Conference on Health Policy Statistics*, Providence RI (2014–2015).
- **Scientific Planning Committee Member**, *International Conference on Health Policy Statistics (ICHPS)* (2006–2018)
- **Organizing Committee Member**, *2nd International Conference and Exhibition on Biometrics & Biostatistics Statistics (ICHPS)* (2013)
- **Program Chair-Elect**: Health Policy Section of the American Statistical Association (2010–2011)
- **Scientific reviewer**: National Science Foundation (2010, 2012, 2013)
- **Scientific reviewer**: Study section, Susan G. Komen for the Cure Grants Program - Localized Chemotherapies (LCT) (2008, 2009)
- **Scientific reviewer**: Study section, Deployment Related Medical Research Program, Department of Defense (2008–present)
- **Referee** for *Statistics, Policy and Politics, Biometrics, Journal of the Computational and Graphical Statistics, The American Statistician, Biometrical Journal, Journal of Official Statistics, Survey Methodology, Statistica Sinica, Journal of the American Statistical Association, Communications in Statistics Theory & Methods, Circulation, Academic Pediatrics, Journal of Quality of Life, Psychological Methods, BioMed Central*
- **Reviewer** for Springer Publishers (2006)
- **Advisory Board Member**, *Turkish Clinics Journal of Biostatistics (2009–present)*
- **Organizer** of several invited sessions in international meetings such as ENAR (2008), Joint Statistical Meetings (2009), ICHPS (2008, 2010) on themes such as missing data techniques & diagnostics, causal inference, combining information across multiple data sources.

INSTITUTIONAL SERVICE

*University at Albany, SUNY*

Departmental Committees

- 2011–2017 Chair, Epidemiology and Biostatistics Personnel Committee
- 2011–2012 Epidemiology and Biostatistics Faculty Search Committee
- 2008–2017 Chair, Biostatistics Graduate Program Admission Committee
- 2008–2011 Epidemiology and Biostatistics Website Committee

School Committees

- 2011–2018 Committee on Tenure Promotion and Continuing Appointments  
School of Public Health
- 2009–2016 Chair, School of Public Health Evaluation Committee
- 2010–2013 School of Public Health Grievance Committee

University Committees

- 2014–2015 Proposal reviewer for the Presidential Initiatives Fund for Research and Scholarship
- 2009–Present University Council on Research FRAP Committee

INSTITUTIONAL SERVICE

*University of Massachusetts, Amherst*

Departmental Committees

2004–2007 Biostatistics Graduate Program Admission Coordinator

2004–2007 Doctoral candidacy and comprehensive exam committee

2005–2006 Biostatistics and Epidemiology Colloquium Organizer

School Committees

2004–2007 Curriculum Committee

University Committees

2004–2005 Internal research grant reviewer

COURSES TAUGHT AT UNIVERSITY AT ALBANY, SUNY

Semester(s)	Course	Title
Fall 2011, 2012, 2016	HSTA 558 (3 credits)	Data Analysis I
Spring 2011, 2013	HSTA 559 (3 credits)	Data Analysis II
Fall 2012, 2013, 2015, 2016	HSTA 556 (3 credits)	Bayesian Data Analysis I
Spring 2009, 2010, 2011	HSTA 670 (3 credits)	Longitudinal Data Analysis (new course)
Spring 2012, 2013, 2016, 2018		
Fall 2008, 2009, 2010, 2011	HSTA 610 (3 credits)	Statistical Analysis with Missing Data (new course)
2013, 2015, 2016, 2018, 2019		
Fall 2009	HSTA 550 (1 credit)	Introduction to R ( <i>new course</i> )

COURSES TAUGHT AT MIDDLE EAST TECHNICAL UNIVERSITY

Semester(s)	Course	Title
Fall 2014	STAT 610 (3 credits)	Statistical Analysis with Missing Data
Spring 2015	STA4 460 (3 credits)	Bayesian Data Analysis

COURSES TAUGHT AT UNIVERSITY OF MASSACHUSETTS

Semester(s)	Course	Title
Spring 2006	BIOEPI 796A (3 credits)	Advanced Statistical Computation ( <i>new course</i> )
Spring, Fall 2005, Fall 2006	BIOEPI 743 (3 credits)	Analysis of Categorical Data
Fall 2004	BIOEPI 540 (3 credits)	Introduction to Biostatistics

DOCTORAL ADVISEES

Name	Degree Program	Title
Tugba Hocagil (2018)	Ph.D. in Biostatistics	Computationally efficient imputation algorithms for multilevel data (current job: Postdoc at Harvard University)
Meng Wu (2017)	Ph.D. in Biostatistics	Causal inference in complex incomplete data (current job: Director at NY Department of Health)
Yi Sun (2015)	Ph.D. in Biostatistics	Stepwise Matching Algorithms (current job: Scientist at NY Department of Health)
Kuangnan Xiong (2015)	Ph.D. in Biostatistics	Multiple imputation and random forests in binary classification (current job: Scientist at NY Department of Health)
Gang Liu (expected 2020)	Ph.D. in Biostatistics	Sequential imputation using marginalized models in multilevel applications
Bo Ye (expected 2021)	Ph.D. in Biostatistics	Development of coherent imputation models in mediation analyses
Qiushuang LI (expected 2021)	Ph.D. in Biostatistics	Model selection routines for multiple imputation inference in high dimensional settings

## DOCTORAL COMMITTEES

Name	Degree Program	University
Eva Tanner (2018)	Ph.D. in Environmental Health	UAlbany
Liu Chen (2019)	Ph.D. in Biostatistics	UAlbany
Hamide Yilmaz-Gozu (2016)	Ph.D.in Education	UAlbany
Keewan Kim (2016)	Ph.D. in Environmental Health	UAlbany
Sanghamitra Savadatti (2016)	Ph.D. in Epidemiology	UAlbany
Srishti Shrestha (2015)	Ph.D. in Epidemiology	UAlbany
Anju Menon (2014)	Ph.D. in Biostatistics	UAlbany
Ata Ashar (2014)	Ph.D. in Epidemiology	UAlbany
Ashley Giambrone (2013)	Ph.D. in Biostatistics	UAlbany
Georgia Brooke (2013)	Ph.D. in Education	UAlbany
Tabassum Insaf (2012)	Ph.D. in Epidemiology	UAlbany
Derek Cyr (2011)	Ph.D. in Biostatistics	UAlbany
Aely Park (2011)	Ph.D. in Social Welfare	UAlbany
Bo Xu (2007)	Ph.D. Biostatistics	UMass
Meng-Shiou Shieh (2007)	Ph.D. in Mathematics and Statistics	UMass

## MASTER'S ADVISEES

Name	Degree Program & University
Tom Robertson (2019)	MS in Biostaistics, UAlbany
Paul deBarros (2016)	MS in Biostatistics, UAlbany
Mohammad Lachaab (2016)	MS in Biostatistics, UAlbany
Tang, Honglei (2013)	MS in Biostatistics, UAlbany
Yu, Chen (2013)	MS in Biostatistics, UAlbany
Lu, Lu (2013)	MS in Biostatistics, UAlbany
Storch, Jashua (2013)	MS in Biostatistics, UAlbany
Samira, Ramadan (2012)	MS in Biostatistics, UAlbany
Meiwao, Fan (2012)	MS in Biostatistics, UAlbany
Schaeffer, Richard (2012)	MS in Biostatistics, UAlbany
Thomas, Sanil (2011)	MS in Biostatistics, UAlbany

## MASTER'S COMMITTEES (ATTENDED ALL MS STUDENTS' COMMITTEES SINCE 2010)

Name (Year)	Degree Program	University
Yan Wu (2009)	MS in Biostatistics	UAlbany
Wei Jiang (2009)	MS in Biostatistics	UAlbany
Ashley Viola (2009)	MS in Biostatistics	UAlbany
Diana Nadler (2009)	MS in Biostatistics	UAlbany
Gul Inan (2009)	MS in Statistics	Middle East Technical University
Alex Knee (2006)	MS in Epidemiology	UMass
Allison Crawford (2006)	MS in Biostatistics	UMass
William Parsons (2005)	MS in Epidemiology	UMass
Timothy J. Wright (2005)	MS in Epidemiology	UMass
Kathleen Beach (2005)	MS in Epidemiology	UMass

#### ACADEMIC HONORS

2013 Delta Omega Honorary Society Membership

2009-2010 Junior faculty researcher award by the Center for Social and Demographic Analysis, University at Albany

Elected as a 2002–2003 Research Fellow under American Statistical Association and National Center for Health Statistics Fellowship Program

Travel grant awarded by the Department of Statistics, The Pennsylvania State University (1997, 1998, 1999, 2000)

Awarded a scholarship for graduate study in the United States by the Council of Higher education of the Republic of Turkey (1993–1996)

Graduated with honors, Gazi University (1992)

#### PROFESSIONAL MEMBERSHIPS

American Statistical Association, Institute of Mathematical Statistics