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Employment

2020 – Present	Associate Professor, Montclair State University, School of Computing
2014 – 2020	Assistant Professor, Montclair State University, Department of Mathematical Sciences
2008 – 2014	Assistant Professor, East Carolina University, Department of Biostatistics

Education

2008	Ph.D., Department of Statistics, Florida State University, USA
2005	M.S., Department of Statistics, Florida State University, USA
2003	B.S., Facultatea de Stiinte Economice, Universitatea de Vest, Romania

Publications

1. **Ivanescu, A. E.** 2026. [A clustering approach using functional principal components for wind speed and evapotranspiration patterns in Latin America](#). Book chapter in *New perspectives on computational statistics - Emerging technologies and applications*, Editors: Lambert-Torres, G., Da Silva Filho, J. I., and Silva Torres, B.
2. Solhjoo, S., Punjabi, N. M., **Ivanescu, A. E.**, Crainiceanu, C., Gaynanova, I., Wicken, C., Buckenmaier, C. III, Haigney, M. C. 2021. [Methadone destabilizes cardiac repolarization during sleep](#), *Clinical Pharmacology & Therapeutics* 110(4): 1066-1074.
3. Huang, L., Bai, J., **Ivanescu, A. E.**, Harris, T., Maurer, M., Green, P., and Zipunnikov, V. 2019. [Multilevel matrix-variate analysis and its application to accelerometry-measured physical activity in clinical populations](#). *Journal of the American Statistical Association* 114(562): 553–564.
4. Smirnova, E., **Ivanescu, A. E.**, Bai, J., and Crainiceanu, C. M. 2018. [A practical guide to big data](#). *Statistics & Probability Letters* 136: 26–29.
5. **Ivanescu, A. E.** 2018. [Function-on-function regression for two-dimensional functional data](#). *Communications in Statistics – Simulation and Computation* 47(9): 2656–2669.
6. Alexander, M., Pisut, G., and **Ivanescu, A. E.** 2017. [Using demographic variables to understand body size perception and implications for retailers](#). *Family and Consumer Sciences Research Journal* 46(2): 129–143.
7. **Ivanescu, A. E.**, Crainiceanu, C. M., and Checkley, W. 2017. [Dynamic child growth prediction: a comparative methods approach](#). *Statistical Modelling* 17(6): 468–493.

8. **Ivanescu, A. E.** 2017. [Adaptive inference for the bivariate mean function in functional data](#). *Advances in Data Science and Adaptive Analysis* 9(3): 1–29.
9. Bai, J., **Ivanescu, A. E.**, and Crainiceanu, C. M. 2017. [Discussion of the paper ‘A general framework for functional regression modelling’](#). *Statistical Modelling* 17(1-2): 36–44.
10. Grajeda, L. M., **Ivanescu, A. E.**, Saito, M., Crainiceanu, C. M., Jaganath, D., Gilman, R. H., Crabtree, J. E., Kelleher, D., Cabrera, L., Cama, V., and Checkley, W. 2016. [Modeling subject-specific childhood growth using linear mixed-effect models with cubic regression splines](#). *Emerging Themes in Epidemiology* 13:1–13.
11. Donnelly, J., Horn, R.R., Young, M. and **Ivanescu, A.E.** 2016. [The effects of the Yes You Can! curriculum on the sexual knowledge and intent of middle school students](#). *Journal of School Health* 86(10): 759–765.
12. **Ivanescu, A. E.**, Staicu, A.-M., Scheipl, F., and Greven, S. 2015. [Penalized function-on-function regression](#). *Computational Statistics* 30(2): 539–568.
13. **Ivanescu, A. E.**, Li, P., George, B., Brown, A. W., Keith, S. W., Raju, D., and Allison, D. B. 2016. [The importance of prediction model validation and assessment in obesity and nutrition research](#). *International Journal of Obesity* 40: 887–894.
14. Thomas, D. M., **Ivanescu, A. E.**, Martin, C. K., Heymsfield, S. B., Marshall, K., Bodrato, V. E., Williamson, D. A., Anton, S. D., Sacks, F. M., Ryan, D. and Bray, G. A. 2015. [Predicting successful long-term weight loss from short-term weight-loss outcomes: new insights from a dynamic energy balance model \(The POUNDS Lost study\)](#). *The American Journal of Clinical Nutrition* 101(3): 449–454.
15. Sawrar, H., Chapman III, W. H., Pender, J. R., **Ivanescu, A. E.**, Drake III, A. J., Pories, W. J., Dar, M. S. 2014. [Hypoglycemia after Roux-en-Y gastric bypass: The BOLD experience](#). *Obesity Surgery* 24(7): 1120–1124.
16. **Ivanescu, A. E.** 2013. [A note on bivariate smoothing for two-dimensional functional data](#). *International Journal of Statistics and Probability* 2(2): 102–111.
17. Curry, J. D., Norbury, J. W., Cartwright, M. S., **Ivanescu, A. E.**, Moore, D. 2013. [Comparison of two different ultrasonographic parameters for the diagnosis of carpal tunnel syndrome](#). *Physical Medicine and Rehabilitation: Musculoskeletal and Sports Medicine* 5, 9S.
18. Pratt, K. J., Lazorick, S., Lamson, A. L., **Ivanescu, A. E.**, and Collier, D. N. 2013. [Quality of life and BMI changes in youth participating in an integrated pediatric obesity treatment program](#). *Health and Quality of Life Outcomes* 11(116): 1–9.
19. Perryman, T., Carter, A., S. Messinger, D., S., Stone, W., L., **Ivanescu, A. E.**, Yoder, P. 2013. [Brief Report: Parental child-directed speech as a predictor of receptive language in children with autism symptomatology](#). *Journal of Autism and Developmental Disorders* 43(8): 1983–1987.
20. Alexander, M., Pisut, G., and **Ivanescu, A. E.** 2012. [Investigating women’s plus-size body measurements and hip shape variation based on SizeUSA data](#). *International Journal of Fashion Design, Technology and Education* 5(1): 3–12.
21. Elliott, S. J., **Ivanescu, A. E.**, Leland, N., Fogo, J., Painter, J. A., and Trujillo, L. 2012. [Feasibility of interdisciplinary community-based fall risk screening](#). *American Journal of Occupational Therapy* 66: 161–168.
22. Bunea, F., **Ivanescu, A. E.**, and Wegkamp, M. H. 2011. [Adaptive inference for the mean of a Gaussian process in functional data](#). *Journal of the Royal Statistical Society - Series B (Statistical Methodology)* 73(4) 531–558.

23. Sharma, S., **Ivanescu, A. E.**, and Srivastava, R. 2009. [Utility of modified mallampati score in predicting obstructive sleep apnea in African-Americans](#). *CHEST* 136(4), 33S.
24. **Ivanescu, A. E.** 2008. [Revealing sparse signals in functional data](#). Department of Statistics, Florida State University, Tallahassee, FL. PhD Dissertation.

Grants

2019	Project Director: <i>Dynamic child growth curve modeling and outlier detection</i> . Johns Hopkins University, Subcontract. Percent support: 7% from annual salary (2019)
2019	Project Director: <i>Statistical analysis of QTVI data during sleep</i> . Johns Hopkins University, Subcontract. Percent support: 13% from annual salary (2019)
2015	Principal Investigator: <i>Child growth curve modeling</i> . Johns Hopkins University, Subcontract. Percent support: 8.3% from annual salary (2015)
2013 – 2014	Co-Investigator: <i>NADPH oxidase and microvascular dysfunction in obesity</i> . National Institutes of Health (NIH), R15. Percent support: 2.5% from annual salary (2013-2014)

Talks & Conference Presentations

2025	Econometrics and Statistics (EcoSta 2025) hybrid conference, Tokyo, Japan. <i>Talk</i> : “Statistical analysis of physical activity from NHANES”
2024	International Biometric Society, Eastern North American Region (ENAR 2024) Spring Meetings, Baltimore, MD, USA. <i>Talk</i> : “Outlier detection in dynamic functional models”
2022	The University of the West Indies, Seminar in the Department of Mathematics. <i>E-Talk</i> : “Statistical analysis of heart variability from electrocardiogram data during sleep”
2021	International Biometric Society, Eastern North American Region (ENAR 2021) Spring Meetings, E-Conference. <i>Talk</i> : “Statistical analysis of heart variability from electrocardiogram data during sleep”
2019	The College of New Jersey, Seminar in the Department of Mathematics and Statistics, NJ, USA. <i>Talk</i> : “Outlier detection in dynamic functional models”
2019	International Biometric Society, Eastern North American Region (ENAR 2019) Spring Meetings, Philadelphia, PA, USA. <i>Poster</i> : “Computational methods for dynamic prediction”
2018	Joint Statistical Meetings (JSM 2018), Vancouver, BC, Canada. <i>Topic Contributed Papers: Novel developments in functional data analysis</i> . <i>Talk</i> : “Outlier detection in dynamic functional models”
2017	Joint Statistical Meetings (JSM 2017), Baltimore, MD, USA. <i>Invited Papers: Dynamic methods for functional data with application to clinical data analysis</i> . <i>Talk</i> : “Identification of outliers in dynamic functional regression for child growth studies”
2017	Southern Regional Council on Statistics (SRCOS) Summer Research Conference (SRC 2017), Jekyll Island, GA, USA. <i>Invited Session: Functional Data Analysis</i> . <i>Talk</i> : “Dynamic child growth prediction: a comparative methods approach”

Talks & Conference Presentations

- 2017 Montclair State University, Seminar in the Department of Mathematical Sciences, NJ, USA. *Talk: "Dynamic child growth prediction: a comparative methods approach"*
- 2017 International Biometric Society, Eastern North American Region (ENAR 2017) Spring Meetings, Washington, DC, USA. *Invited Papers: Nonparametric methods for functional data with application to clinical data analysis. Talk: "Dynamic child growth prediction: a comparative methods approach"*
- 2016 Joint Statistical Meetings (JSM 2016), Chicago, IL, USA. *Topic Contributed Papers: Functional and longitudinal data analysis methods. Talk: "Dynamic child growth prediction: a comparative methods approach"*
- 2015 3rd Annual ASA New Jersey Chapter / Bayer Statistics Workshop, Whippany, NJ, USA. *Poster: "Simulation studies for functional dynamic curve prediction"*
- 2015 Joint Statistical Meetings (JSM 2015), Seattle, WA, USA. *Contributed Papers: Advances in High-Dimensional Data Nonparametrics. Talk: "Inference for nonparametric function-on-function regression"*
- 2015 Southern Regional Council on Statistics (SRCOS) Summer Research Conference (SRC 2015), Carolina Beach, NC, USA. *ASA/Kutner faculty invited paper and poster session. Poster: "Child growth prediction: a comparative methods approach"*
- 2015 Eastern North American Region (ENAR 2015) Biometric Society Meeting, Miami, FL, USA. *Contributed Papers: Nonparametric Methods. Talk: "Estimation and confidence bands for nonparametric regression with functional responses and multiple scalar covariates"*
- 2014 The 70th Annual Deming Conference on Applied Statistics, Atlantic City, NJ, USA. *Poster: "Analysis of regression with bivariate predictors and applications to an association between electricity demand and temperature"*
- 2014 William Patterson University, Seminar in the Department of Mathematics, NJ, USA. *Talk: "Penalized function-on-function regression"*
- 2014 Joint Statistical Meetings (JSM 2013), Montreal, Canada. *Contributed Papers: Functional Analysis and Mixed Models. Talk: "Penalized function-on-function regression"*
- 2013 Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC, USA. *Program on Low-Dimensional Structure in High-dimensional Systems (LDHD). Poster: "Examples of sparse structures in big data and statistical inference for images"*
- 2013 Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC, USA. *Neuroimaging Data Analysis (NDA) Program. Poster: "Statistical methods for group effects in functional regression with applications to DTI brain tractography"*
- 2012 Joint Statistical Meetings (JSM 2012), San Diego, CA, USA. *Contributed Papers: Methods for Multivariate Data. Talk: "Inference for the bivariate mean function for functional data with a two-dimensional domain"*
- 2011 Statistical Methods for Very Large Datasets Conference, Baltimore, MD, USA. *Poster: "Bivariate mean function estimation for functional data with a two-dimensional domain"*

Talks & Conference Presentations

2011	Eastern North American Region (ENAR 2011) Biometric Society Meeting, Miami, FL, USA. <i>Contributed Papers: Functional Data Analysis</i> . Talk: "Bivariate surface estimation for functional data"
2010	Joint Statistical Meetings (JSM 2010), Vancouver, Canada. <i>Topic Contributed Papers: New Directions in Functional Data Analysis</i> . Talk: "Thresholded projection estimator for the mean function in functional data"
2010	Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC, USA. <i>Analysis of Object Oriented Data Workshop</i> . Poster: "Estimating the mean function in functional data"
2009	New Researchers in Statistics and Probability Conference, Baltimore, MD, USA. Talk: "Adaptive inference for sparse signals in functional data"
2009	Western North American Region (WNAR 2009) Biometric Society Meeting, Portland, OR, USA. <i>Institute of Mathematical Statistics (IMS) Invited Session: Functional Data Analysis</i> . Talk: "Adaptive inference for sparse signals in functional data"

Professional Associations

ACM	Association for Computing Machinery
ASA	American Statistical Association
CWS	Caucus for Women in Statistics
ENAR	International Biometric Society, Eastern North American Region
IMS	Institute of Mathematical Statistics