CURRICULUM VITAE

Christopher T. Franck, Ph.D.
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CONTACT INFORMATION

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EDUCATION AND TRAINING

Ph.D. in Statistics, North Carolina State University, Raleigh, NC, 2010
    Thesis: Mixture based interaction effects in unreplicated factorial experiments
    Advisor: Jason Osborne, Associate Professor of Statistics, North Carolina State University
M.Stat. in Statistics, North Carolina State University, Raleigh, NC, 2007
B.S. in Statistics, Virginia Tech, Blacksburg VA, 2005

PROFESSIONAL APPOINTMENTS

Aug 2016 – present	Assistant Professor, Department of Statistics, Virginia Tech
Dec 2011 – present	Assistant Professor, Virginia Tech Carilion School of Medicine
Mar 2011 – Aug 2016	Assistant Research Professor, Virginia Tech Carilion Research Institute
Aug 2010 – Aug 2016	Assistant Research Professor, Department of Statistics, Virginia Tech; Assistant/Interim Director of the Laboratory for Interdisciplinary Statistical Analysis (LISA)
Dec 2013 – Dec 2014	Associate Director of Analytics, Virginia Center for Housing Research
Jul 2009 – May 2010	College of Agriculture and Life Sciences Consulting Research Assistant, North Carolina State University
Feb 2009 – Aug 2009	Graduate Research Assistant at Rho, Inc., Chapel Hill, NC
Aug 2005 – Jan 2009	Graduate Teaching Assistant, Department of Statistics, North Carolina State University

AWARDS AND HONORS

September 2015	Editor's Choice Invited Preeminent Tutorial, *Journal of Experimental Analysis of Behavior*, to be given at the Society for the Quantitative Analyses of Behavior, Chicago, 2016
Spring 2010	Francis G. Giesbrecht Statistical Consulting Enhancement Award, North Carolina State University
Spring 2008, 2009	Outstanding Teaching Assistant Award, Department of Statistics, North Carolina State University
Spring 2008	Paige Plagge Award for Citizenship, Department of Statistics, North Carolina State University
Summer 2007	Recipient of VIGRE Fellowship, North Carolina State University
November 2004	Inducted into Mu Sigma Rho: National Statistical Honor Society, Virginia Tech Chapter

PROFESSIONAL SERVICE AND AFFILIATIONS

University Service

- Department of Statistics Search Committee, Biostatistician, 2017-present
- Department of Statistics Search Committee, Stat Lab Director, 2016
- Department of Statistics Social Committee, 2016-present
- Department of Statistics Colloquium Committee, 2016-present (chair fall 2017-present)
- Periodic Review Committee: Executive Director of the Virginia Tech Carilion Research Institute, 2015
- Medical Curriculum Committee for Virginia Tech Carilion School of Medicine, June 2012-June 2015
- Department of Statistics Search Committee for Department Head, August 2014
- College of Science Communication Committee, October 2012

Service to National Organizations
- W.J. Dixon Award Committee for the American Statistical Association, 2015-2017

Membership in Professional Societies
- American Statistical Association
- Sigma Xi: The Scientific Research Honor Society
- Association for Behavior Analysis International

Editorial Activities
- Addiction (referee)
- Assessment (referee)
- Behavioral Processes (referee)

- Drug and Alcohol Dependence (referee)
- International Statistical Review (referee)
- Journal of Applied Statistics (referee)
- Journal of Individual Differences (referee)
- Journal of Experimental Analysis of Behavior (referee)
- Psychological Assessment (referee)

TEACHING AND MENTORING

Aug 2017-present	**Inference Fundamentals** • Classical and resampling-based approaches for point estimation, interval estimation, and hypothesis testing. Emphasis on using R, visualizing data, computing and interpreting effect sizes, conducting Monte Carlo simulation.
Jan 2016	**Introduction to Python and SQL** • Taught data types, table creation selection and filtering, scripts, aggregate functions, joins, HTML parsing basics, and introduction to web scraping
Aug 2011 – Aug 2016	**Biostatistics** • Responsible for developing and teaching biostatistics curriculum to first-year medical students at Virginia Tech Carilion School of Medicine
Aug 2010 – Dec 2016	**Introduction to Statistical Program Packages** • Taught data management, visualization, analysis, modeling, computation, hypothesis testing, simulation, and the Bayesian paradigm to first-year statistics graduate students using R, LaTeX, and SAS
May 2008 – Aug 2008	**Teaching Assistant, Computational Undergraduate Statistics Program** • Instructed undergraduate statisticians in computational modeling and data mining approaches for consulting projects
Aug 2007 – Dec 2008	**Introduction to Statistics** • Responsible for writing and delivering lectures, exams, and other assessments
May 2006 – Apr 2007	**Experimental Statistics Computer Lab** • Instructed students in the use of statistical software for analysis, modeling, and visualization

STUDENT ADVISEES

Completed Statistics Ph.D
- Matthew Keefe, co-chair

Completed Statistics M.S. and Research Associates
- James Wrenn
- Celia Eddy
- Joshua Washburn

Current Statistics Ph.D.
- Thomas Metzger, Statistics, chair
- Ting Guan, Statistics, member
- Man Tang, Statistics, member

Other Current Ph.D. committee service
- Lexie Mellis, translational biology, medicine, and health
- Man Tang (Statistics) - PhD committee member
- Leigh Allin (Biomechanics) – PhD committee member

Other Completed Ph.D. committee service
- Lara Moody, psychology
- Ana Maria Ortega, Statistics
- Vinaya Vijayan, genetics, bioinformatics, and computational biology
- Robin Varghese, Virginia Tech Carilion Research Institute
- Danielle Beringer, biomechanics
- Danielle Choi, genetics, bioinformatics, and computational biology
- Gareth Highnam, genetics, bioinformatics, and computational biology
- Tina Rossi, biomechanics
- Dong Zhao, building construction

PUBLICATIONS

Published Articles (Underline denotes student advisee)

1. Sheffer, C. E., Bickel, W. K., Brandon, T. H., **Franck, C. T.**, Deen, D., Panissidi, L., … Mantovani, A. (n.d.). Preventing relapse to smoking with transcranial magnetic stimulation: Feasibility and potential efficacy. *Drug & Alcohol Dependence*, *182*, 8–18. https://doi.org/10.1016/j.drugalcdep.2017.09.037

2. Gilroy, S. P., **Franck, C. T.**, & Hantula, D. A. (2017). The discounting model selector: Statistical software for delay discounting applications. *Journal of the Experimental Analysis of Behavior*, *107*(3), 388–401. https://doi.org/10.1002/jeab.257

3. Bickel, W. K., Moody, L. N., Eddy, C. R., & **Franck, C. T.** (2017). Neurocognitive dysfunction in addiction: Testing hypotheses of diffuse versus selective phenotypic dysfunction with a classification-based approach. *Experimental and Clinical Psychopharmacology*, *25*(4), 322–332. https://doi.org/10.1037/pha0000115

4. Queen, R. M., **Franck, C. T.**, Schmitt, D., & Adams, S. B. (2017). Are There Differences

in Gait Mechanics in Patients With A Fixed Versus Mobile Bearing Total Ankle Arthroplasty? A Randomized Trial. *Clinical Orthopaedics and Related Research®*, *475*(10), 2599–2606. https://doi.org/10.1007/s11999-017-5405-7

5. Keefe, M. J., **Franck, C. T.**, & Woodall, W. H. (2017). Monitoring foreclosure rates with a spatially risk-adjusted Bernoulli CUSUM chart for concurrent observations. *Journal of Applied Statistics*, *44*(2), 325–341. https://doi.org/10.1080/02664763.2016.1169257

6. **Franck, C. T.**, & Osborne, J. A. (2016). Exploring Interaction Effects in Two-Factor Studies using the hiddenf Package in R. *The R Journal*, 8(1), 159–172.

7. Garman, C. R., Nussbaum, M. A., **Franck, C. T.**, & Madigan, M. L. (2016). A Pilot Study Exploring Obesity-Related Differences in Fall Rate and Kinematic Response Resulting From a Laboratory-Induced Trip. *IIE Transactions on Occupational Ergonomics and Human Factors*, 4(4), 211–221. https://doi.org/10.1080/21577323.2016.1198732

8. Sheffer, C. E., Mackillop, J., Fernandez, A., Christensen, D., Bickel, W. K., Johnson, M. W., Panissidi, L., Pittman, J., **Franck, C. T.**, Williams, J., Mathew, M. (2016). Initial examination of priming tasks to decrease delay discounting. *Behavioural Processes*, 128, 144 – 152. https://doi.org/http://dx.doi.org/10.1016/j.beproc.2016.05.002

9. Varghese, R. T., Liang, Y., Guan, T., **Franck, C. T.**, Kelly, D. F., & Sheng, Z. (2016). Survival kinase genes present prognostic significance in glioblastoma. *Oncotarget*, 7(15), 20140.

10. Moody, L., **Franck, C. T.**, Hatz, L., & Bickel, W. K. (2016). Impulsivity and polysubstance use: A systematic comparison of delay discounting in mono-, dual-, and trisubstance use. *Experimental and Clinical Psychopharmacology*, 24(1), 30.

11. Moody, L., **Franck, C. T.**, & Bickel, W. K. (2016). Comorbid depression, antisocial personality, and substance dependence: Relationship with delay discounting. *Drug and Alcohol Dependence*, 160, 190–196.

12. Bickel, W. K., Wilson, A. G., Chen, C., Koffarnus, M. N., & **Franck, C. T.** (2016). Stuck in time: negative income shock constricts the temporal window of valuation spanning the future and the past. *PloS One*, 11(9), e0163051.

13. Heitz, C., Prusakowski, M. K., Willis, G., & **Franck, C. T.** (2015). Does the concept of the "Flipped Classroom" exted to the emergency medicine clinical clerkship? *Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health*, 16(6), 851–855. http://doi.org/10.5811/westjem.2015.9.27256

14. Sorrentino, D. R., & **Franck, C. T.** (2015). Utility of fecal markers to diagnose and monitor inflammatory bowel diseases. *American Journal of Gastroenterology*, 110(12), 1732–1733. http://doi.org/10.1038/ajg.2015.366.

15. Koffarnus, M. N., **Franck, C. T.**, Stein, J. S., & Bickel, W. K. (2015). A modified exponential behavioral economic demand model to better describe consumption data. *Experimental and Clinical Psychopharmacology*, 23(6), 504–512. http://doi.org/10.1037/pha0000045

16. Santo, A. R., Sorice, M. G., Donlan, J., **Franck, C. T.**, & Anderson, C. B. (2015). A human-centered approach to designing invasive species eradication programs on human-inhabited islands. *Global Environmental Change*, *35*, 289-298.

17. **Franck, C. T.**, Koffarnus, M. N., House, L. L., & Bickel, W. K. (2015). Accurate characterization of delay discounting: A multiple model approach using approximate Bayesian model selection and a unified discounting measure. *Journal of the Experimental*

Analysis of Behavior, *103*(1), 218–233. http://doi.org/10.1002/jeab.128

18. Garman, C. R., **Franck, C. T.**, Nussbaum, M. A., & Madigan, M. L. (2015). A bootstrapping method to assess the influence of age, obesity, gender, and gait speed on probability of tripping as a function of obstacle height. *Journal of Biomechanics*, *48*(6), 1229–1232.

19. Koebel, C. T., McCoy, A. P., Sanderford, A. R., **Franck, C. T.**, & Keefe, M. J. (2015). Diffusion of green building technologies in new housing construction. *Energy and Buildings*, *97*, 175–185.

20. McCoy, A. P., Koebel, C. T., Sanderford, A. R., **Franck, C. T.**, & Keefe, M. J. (2015). Adoption of high-performance housing technologies among U.S. homebuilding firms, 2000 through 2010. *Cityscape: A Journal of Policy Development and Research*, *17*(2), 167–187.

21. Wilson, A. G., **Franck, C. T.**, Koffarnus, M. N., & Bickel, W. K. (2015). Behavioral economics of cigarette purchase tasks: Within-subject comparison of real, potentially real, and hypothetical cigarettes. *Nicotine & Tobacco Research*, ntv154.

22. Wilson, A. G., **Franck, C. T.**, Koffarnus, M. N., Reese, R. C., Bixel, K. D., & Bickel, W. K. (2015). An internet-acquired recovery sample: Initial findings from the international quit and recovery registry. *Drug and Alcohol Dependence*, *146*, e24.

23. Wilson, A. G., **Franck, C. T.**, Mueller, E. T., Landes, R. D., Kowal, B. P., Yi, R., & Bickel, W. K. (2015). Predictors of delay discounting among smokers: Education level and a utility measure of cigarette reinforcement efficacy are better predictors than demographics, smoking characteristics, executive functioning, impulsivity, or time perception. *Addictive Behaviors*, 45, 124–133.

24. Anderson, D. E., **Franck, C. T.**, & Madigan, M. L. (2014). Age differences in the required coefficient of friction during level walking do not exist when experimentally-controlling speed and step length. *Journal of Applied Biomechanics*, *30*(4), 542–546.

25. Bickel, W. K., Wilson, A. G., **Franck, C. T.**, Mueller, E. T., Jarmolowicz, D. P., Koffarnus, M. N., & Fede, S. J. (2014). Using crowdsourcing to compare temporal, social temporal, and probability discounting among obese and non-obese individuals. *Appetite*, *75*, 82–89.

26. Boone, J. H., Archbald-Pannone, L. R., Wickham, K. N., Carman, R. J., Guerrant, R. L., **Franck, C. T.**, & Lyerly, D. M. (2014). Ribotype 027 Clostridium difficile infections with measurable stool toxin have increased lactoferrin and are associated with a higher mortality. *European Journal of Clinical Microbiology & Infectious Diseases*, *33*(6), 1045–1051.

27. Brunson, J. C., Fassino, S., McInnes, A., Narayan, M., Richardson, B., **Franck, C. T.**, Ion, P., & Laubenbacher, R. (2014). Evolutionary events in a mathematical sciences research collaboration network. *Scientometrics*, *99*(3), 973–998.

28. Price, J. E., Zipper, C. E., Jones, J. W., & **Franck, C. T.** (2014). Water and sediment quality in the Clinch River, Virginia and Tennessee, USA, over nearly five decades. *Journal of the American Water Resources Association*, 50(4), 837–858.

29. Ball, D., Adames, N., Reischmann, N., Barik, D., **Franck, C. T.**, Tyson, J. J., & Peccoud, J. (2013). Measurement and modeling of transcriptional noise in the cell cycle regulatory network. *Cell Cycle*, *12*(19), 3392–3407.

30. **Franck, C. T.**, Nielsen, D. M., & Osborne, J. A. (2013). A method for detecting hidden

additivity in two-factor unreplicated experiments. *Computational Statistics & Data Analysis*, *67*, 95–104.

31. Highnam, G., **Franck, C. T.**, Martin, A., Stephens, C., Puthige, A., & Mittelman, D. (2013). Accurate human microsatellite genotypes from high-throughput resequencing data using informed error profiles. *Nucleic Acids Research*, *41*(1), e32. http://doi.org/10.1093/nar/gks981

32. Levine, M. B., Moore, A. B., **Franck, C. T.**, Li, J., & Kuehl, D. R. (2013). Variation in use of all types of computed tomography by emergency physicians. *The American Journal of Emergency Medicine*, *31*(10), 1437–1442. http://doi.org/http://dx.doi.org/10.1016/j.ajem.2013.07.003

33. Levine, M. B., Moore, A. B., Kuehl, D. R., **Franck, C. T.**, & Li, J. (2013). Emergency physician variation in admissions for common chief complaints. *Annals of Emergency Medicine*, 4(62), S60–S61.

34. Moore, A. B., Levine, M. B., Kuehl, D. R., **Franck, C. T.**, & Li, J. (2013). Emergency department physician computed tomography utilization and admission rates. *Annals of Emergency Medicine*, *4*(62), S57.

35. Beeman, S. M., Kemper, A. R., Madigan, M. L., **Franck, C. T.**, & Loftus, S. C. (2012). Occupant kinematics in low-speed frontal sled tests: Human volunteers, Hybrid III ATD, and PMHS. *Accident Analysis & Prevention*, *47*, 128–139.

36. Bickel, W. K., Jarmolowicz, D. P., Mueller, E. T., **Franck, C. T.**, Carrin, C., & Gatchalian, K. M. (2012). Altruism in time: Social temporal discounting differentiates smokers from problem drinkers. *Psychopharmacology*, *224*(1), 109–120.

37. Jarmolowicz, D. P., Bickel, W. K., Carter, A. E., **Franck, C. T.**, & Mueller, E. T. (2012). Using crowdsourcing to examine relations between delay and probability discounting. *Behavioural Processes*, *91*(3), 308–312.

38. Nichols, T. C., Franck, H. W. G., **Franck, C. T.**, DeFriess, N., Raymer, R. A., & Merricks, E. P. (2012). Sensitivity of whole blood clotting time and activated partial thromboplastin time for factor IX: relevance to gene therapy and determination of post-transfusion elimination time of canine factor IX in hemophilia B dogs. *Journal of Thrombosis and Haemostasis*, *10*(3), 474–476.

39. Serenari, C., Leung, Y.-F., Attarian, A., & **Franck, C. T.** (2012). Understanding environmentally significant behavior among whitewater rafting and trekking guides in the Garhwal Himalaya, India. *Journal of Sustainable Tourism*, *20*(5), 757–772. http://doi.org/10.1080/09669582.2011.638383

40. Shallom, S. J., Tae, H., Sarmento, L., Preston, D., McIver, L., **Franck, C. T.**, Dickerman, A., Adams, L.G., and Garner, H. R. (2012). Comparison of genome diversity of Brucella spp. field isolates using Universal Bio-signature Detection Array and whole genome sequencing reveals limitations of current diagnostic methods. *Gene*, *509*(1), 142–148.

41. Zhou, L., **Franck, C. T.**, Yang, K., Pilot, G., Heath, L. S., & Grene, R. (2012). Mining for meaning: Visualization approaches to deciphering Arabidopsis stress responses in roots and shoots. *Omics: A Journal of Integrative Biology*, *16*(4), 208–228.

42. Gupta, P. K., **Franck, C. T.**, Miller, W. J., Gupta, H., & Forse, R. A. (2011). Development and validation of a bariatric surgery morbidity risk calculator using the prospective, multicenter NSQIP dataset. *Journal of the American College of Surgeons*, *212*(3), 301–30

Other Publications

1. **Franck, C. T.** (2013, October 1). Is Nate Silver a statistician? *AMSTAT News*.
2. **Franck, C. T.**, Osborne, J., & Nielsen, D. (2011). *An all configurations approach for detecting hidden-additivity in two-way unreplicated experiments* (Technical Report No. 2636). North Carolina State University.

Intellectual Property Disclosures, Patents, and Software Developed

1. Mittelman, D. A., & **Franck, C. T.** (2014, April). System and method for genotyping using informed error profiles. Retrieved from http://www.freepatentsonline.com/y2014/0114582.html
2. Osborne, J.A., **Franck, C. T.**, & Choi. B. *hiddenf*: *the all-configurations, maximum-interaction F-test for hidden additivity*. R package on the Comprehensive R Archive Network.

GRANTS

Active

1. NIH: "Delay Discounting as a Target for Self-Regulation in Prediabetes" UH2 DK109543 01. PI: Epstein, L.H., and Bickel, W.K., Role: Co-Investigator. (09/2015-08/2018)
2. NIH/NIDA: "Self-Control Improvement Intervention (SCII): Improving Abstinence in Smokers" R01 DA034755 01A1. PI: Bickel, W.K., Role: Statistician. (07/2013-06/2018)
3. NIH/NIAAA: "The Repair of Self-Control in Alcohol Dependence: Working Memory and Real Time fMRI" R01AA021529-01A1. PI: Bickel, W.K., and LaConte, S.M., Role: Statistician. (09/2013-05/2018)

Past
1. NIH/NCI: "The Social Interactome of Recovery: Social Media as Therapy Development" 1 R01 DA039456 01. PI: Bickel, W.K., Role: Co-Investigator. (09/2014-08/2017)
2. NIH/NCI: "Models for Tobacco Product Evaluation" 1U19CA157345-01A1. PI: Hatsukami, D.K., and Shields, P.C., Role: Statistician. (09/2012-08/2017)
3. NIH/NIMHD: "RITCh: Reducing Socioeconomic Disparities in Tobacco Dependence Treatment Outcomes" 1R01MD007054-01. PI: Sheffer, C.E., Role: Statistician. (07/2012-01/2017)
4. Carilion Medical Center: "Evaluation of the utility of telemetry in patients admitted for chest pain who are at low risk for Acute Coronary Syndrome." PI: Franck, C.T. (subcontract), Role: Principal Investigator. (10/2015-10/2016)
5. NIH: "Enhancing Relapse Prevention for Smoking Cessation with rTMS" R21CA17881301A. PI: Sheffer, C.E., Role: Statistician. (09/2014-08/2016)
6. NIH/NIDA: "Inter-Temporal Trade-offs in the Risky Decisions of Cocaine Addicts" R01 DA030241 01. PI: Bickel, W.K., Role: Statistician. (07/2010-03/2016)
7. Hanley Wood: "Improving the Value of the Reporting and Intelligence of the Nation's

Door, Window, and Skylight Manufacturers" 14-0441-08. PI: McCoy, A.P., Role: Statistician. (08/2013-07/2015)
8. Housing Virginia: "The Impact of Energy Efficiency Construction for LIHTC Housing in Virginia" 14-0395-08. PI: McCoy, A.P., Role: Statistician. (11/2013-10/2014)
9. NIH/NIDA: "Executive Function Therapy for Stimulant Addiction" R01 DA024080-01. PI: Bickel, W.K., Role: Statistician. (09/2008-06/2014)
10. NIH/NIDA: "Executive Function Therapy for Stimulant Addiction (ARRA Supplement)" R01 DA024080-04S1. PI: Bickel, W.K., Role: Statistician. (09/2008-06/2014)
11. HUD Grant: "Impact of Market Behavior on the Adoption and Diffusion of Innovative Green Building Technologies" 10814146. PI: McCoy, A.P., Role: Statistician. (01/2012-01/2014)

INVITED PRESENTATIONS AND SYMPOSIA

1. **Franck, C. T.** (2016). *Detecting hidden additivity in two-way unreplicated studies*. Presented at UC Riverside Department of Statistics, October 2016.
2. **Franck C. T.** (2016). *Characterization of delay discounting using multiple models and effective delay 50 – A Goldilocks dilemma*. In North Carolina State University Statistics 75th Anniversary Conference.
3. **Franck, C. T.** (2016) *Characterization of delay discounting using multiple models and effective delay 50*. Journal of Experimental Analysis of Behavior Editor's Choice invited tutorial, Society for the Quantitative Analyses of Behavior, Chicago, IL.
4. **Franck, C. T.**, Keefe, M. J., Woodall, W. H., & Ferreira, M. A. R. (2015). *A study of foreclosures from 2005-2014 using statistical monitoring and disease mapping approaches*. Presented at the Social and Decision Analytics Laboratory, Arlington, VA.
5. **Franck, C. T.** (2013). *An approach for large scale statistical collaboration in the university setting*. Department of Statistics, North Carolina State University.

PRESENTATIONS

1. Keefe, M. J., Ferreira, M. A. R., & **Franck, C. T.** (2017, July). *Objective Bayesian Analysis for Gaussian Hierarchical Models with Intrinsic Conditional Autoregressive Priors*. Contributed paper presented at the Joint Statistical Meetings, Baltimore, MD.
2. Metzger, T. A., & **Franck, C. T.** (2017, August). *Bayesian Model Selection in the Presence of Heteroscedasticity in Linear Models*. Contributed paper presented at the Joint Statistical Meetings, Baltimore, MD.
3. **Franck, C. T.** (2017, August). *A Study of Delay Discounting Using Bayesian Model Selection*. Contributed paper presented at the Joint Statistical Meetings, Baltimore, MD.
4. **Franck, C. T.** (2016). *Detecting Hidden Additivity in Unreplicated Studies Using Bayesian Model Selection*. In Joint Statistical Meetings. Chicago, IL.
5. **Franck, C. T.** (2016). Can educational cyberinfrastructure empower non-statisticians with Bayesian methodology? ASA Conference on Statistical Practice, San Diego, CA.
6. Keefe, M., Ferreira, M. A., & **Franck, C. T.** (2016). Objective Bayesian Analysis for Gaussian Improper CAR Models (Presenter: Matthew Keefe). In ICOSDA 2016. Niagara

Falls, Canada.

7. **Franck, C. T.**, & Osborne, J. A. (2015, August). Testing for hidden additivity in factorial experiments using the hiddenf package in R. Contributed paper presented at the Joint Statistical Meetings, Seattle, WA.

8. Garman, C. R., & **Franck, C. T.** (2015). A bootstrapping method to assess the influence of age, obesity, and gender on probability of tripping as a function of obstacle height. Presented at the 2015 Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2015).

9. **Franck, C. T.** (2014). The research track: Possibilities and risks along the promotion path for collaborating statisticians in academia. Topic contributed panel discussion presented at the 2014 Joint Statistical Meetings, Boston, MA.

10. McCoy, A. P., Koebel, C. T., **Franck, C. T.**, Sanderford, A. R., & Rahmandad, H. (2014). Impact of market behavior on the adoption and diffusion of innovative green building technologies in residential firms. Presented at the Department of Housing and Urban Development Semi-Annual Update.

11. Moody, L., **Franck, C. T.**, Hatz, L., & Bickel, W. K. (2014). Delay discounting in polysubstance dependence. In *Drug and Alcohol Dependence* (Vol. 146, p. e44). San Juan, Puerto Rico: Elsevier Inc. http://doi.org/http://dx.doi.org/10.1016/j.drugalcdep.2014.09.491

12. Quisenberry, A., **Franck, C. T.**, Koffarnus, M. N., & Bickel, W. K. (2014). Delay discounting in current, ex, and non-smokers: Interactions with gender. In *Drug and Alcohol Dependence* (Vol. 146, pp. e73–e74). San Juan, Puerto Rico: Elsevier Inc. http://doi.org/http://dx.doi.org/10.1016/j.drugalcdep.2014.09.569

13. **Franck, C. T.** (2013). Wins, losses, and lessons as an early-career statistician collaborating and teaching in university, research institute, and medical school settings. Topic contributed paper presented at the Joint Statistical Meetings, Montreal, Canada.

14. Nikkhoo, P., Sanderford, A. R., McCoy, A. P., Koebel, C. T., **Franck, C. T.**, & Rahmandad, H. (2013). Adoption of innovative products in the US housing industry: Builders practices 2000-2010. Presented at the Residential Building Design and Construction Conference, Bethlehem, PA.

15. Osborne, J. A., & **Franck, C. T.** (2013). Looking for (and finding!) hidden additivity in complete block designs with the hiddenf package. Presented at the The R User Conference 2013, University of Castilla-La Mancha, Albacete, Spain.

16. Koffarnus, M. N., Mueller, E. T., Jarmolowicz, D. P., Gatchalian, K. M., **Franck, C. T.**, & Bickel, W. K. (2012). Additive effects of smoking status and obesity on delay discounting and social discounting. Presented at the 2012 Annual Meeting of the College on Problems of Drug Dependence, Palm Springs, CA.

17. **Franck, C. T.** (2011). An all configurations approach to testing for latent group-based interaction effects in two-way unreplicated experiments. Contributed paper presentation presented at the Joint Statistical Meetings, Miami, FL.

POSTERS

18. Metzger, T. A., & **Franck, C. T.** (2017, February). *Detecting Interaction in Two-Way Unreplicated Experiments via Bayesian Model Selection*. Poster presented at the

Conference on Statistical Practice, Jacksonville, FL.

1. **Franck, C. T.** (2017, February). *Expanding the Appeal of Model Selection Using Mixture Priors to Incorporate Expert Opinion: A Behavioral Economic Case Study*. Poster presented at the Conference on Statistical Practice, Jacksonville, FL.

2. Feng, J., Pittman, J., Sheffer, C. E., Panissidi, L., Bickel, W. K., & **Franck, C. T.** (2016). Tobacco dependence treatment outcome differences among smokers with and without a history of substance use disorders. Presented at the Society for Research on Nicotine and Tobacco, Chicago, IL.

3. Pittman, J., Sheffer, C. E., Panissidi, L., Feng, J., Bickel, W. K., & **Franck, C. T.** (2016). Recovery from substance use disorders and tobacco dependence treatment outcomes. Presented at annual meeting of the Society for Research on Nicotine and Tobacco, Chicago, IL.

4. Koffarnus, M. N., **Franck, C. T.**, Stein, J. S., & Bickel, W. K. (2015). A behavioral economic demand model modification to improve versatility. Presented at the College on Problems of Drug Dependence, Phoenix, AZ.

5. Snider, S. E., **Franck, C. T.**, Koffarnus, M. N., LaConte, S. M., & Bickel, W. K. (2015). Effects of working memory training regimen on learning acquisition and score asymptote in alcohol dependents. Presented at the College on Problems of Drug Dependence, Phoenix, AZ.

6. Quisenberry, A. J., Perry, E. S., Koffarnus, M. N., **Franck, C. T.**, & Bickel, W. K. (2015). Behavioral economics differentiates smokers with and without other drug dependencies. Presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.

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