



# VCU

VIRGINIA COMMONWEALTH UNIVERSITY

## Brad Verhulst Curriculum Vitae

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Virginia Commonwealth University  
P.O. Box 980126  
Richmond, VA 23298-0126

**E-mail:** [bverhulst@vcu.edu](mailto:bverhulst@vcu.edu)  
**Phone:** (804) 826-3794

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### Education

- Ph.D. Political Science (2010)** Stony Brook University (Advisor: Milton Lodge, Ph.D.)  
**M.A. Political Science (2007)** Stony Brook University  
**B.A. Political Science (2005)** University of Calgary (*Honors with Distinction*)  
**B.A. Psychology (2005)** University of Calgary (*with Distinction*)

### Academic Positions

- Aug 2015–Present** *Research Associate Professor*, Department of Psychiatry, Virginia Commonwealth University  
**Aug 2010–2015** *Postdoctoral Fellow*, Department of Psychiatry, Virginia Commonwealth University  
**Aug 2005–Aug 2010** *Graduate Student*, Department of Political Science, Stony Brook University

### Publications

#### Peer-Reviewed Articles

29. **Verhulst, B.** (In Press) In Defense of P-Values. *American Association of Nurse Anesthetists Journal*
28. Biddle, C., Elam, C., Lahaye, L., Chubb, L., **Verhulst, B.** (In Press) Predictors of at-home arterial oxygen desaturation events in ambulatory surgical patients. *Journal of Patient Safety*
27. **Verhulst, B.**, & Hatemi, P.K. (In Press) Correcting honest errors versus incorrectly portraying them: Responding to Ludeke and Rasmussen. *Personality and Individual Differences*
26. **Verhulst, B.**, & Neale, M.C. (2016) Minor allele frequency changes the nature of genotype by environment interactions. *Behavior Genetics* 46: 726-733.
25. Savage, J.E., Kaprio, J., Korhonen, T., Pulkkinen, L., Rose, R.J., **Verhulst, B.**, & Dick, D.M. (2016) The Effects of Social Anxiety on Substance Use across Adolescence: Results from a Longitudinal Twin Study in Finland. *Psychology of Addictive Behaviors* 30(4):462-474.
24. Moore, A.A., Neale, M.C., Silberg, J.L. & **Verhulst, B.** (2016) Substance use and depression symptomatology: Measurement invariance of the Beck Depression Inventory (BDI-II) among non-users and frequent-users of alcohol, nicotine and cannabis. *PLOS one* 11(4).

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23. Biddle, C., Robinson, K., Pike, B., Kammerman, M., Gay, B., & **Verhulst, B.** (In Press) Quantifying the ram-bunctious journey of the anesthesia providers hands during simulated, routine care. *American Journal of Infection Control* 44: 873-878.
  22. Levitan, L. & **Verhulst, B.** (2016) Conformity in Groups: The Effects of Others' Views on Expressed Attitudes and Attitude Change *Political Behavior* 38: 277-315.
  21. López-Solà, C., Fontenelle, L.F., **Verhulst, B.**, Neale, M.C. Menchón, J.M., Alonso, P., & Ben J. Harrison (2016) Distinct etiological influences on obsessive-compulsive symptoms dimensions: a multivariate twin study. *Depression and Anxiety* 33: 179-191. PMID: 26630089 PMCID: PMC4775288
  20. Long, E.C., **Verhulst, B.**, Neale, M.C., Lind, P.A., Hickie, I.B., Martin, N.G., & Gillespie, N.A. (2015) The Genetic and Environmental Contributions to Internet Use and The Association with Internalizing Disorders and Substance Use: A Twin Study. *Twin Research and Human Genetics* 19(1):1-9. PMID: 26693596. PMCID: PMC4756632.
  19. Lubke, G.H., Miller, P.J., **Verhulst, B.**, Bartels, M., van Beijsterveldt, T., Willemsen, G., Boomsma, D.I., & Middeldorp C.M. (In Press) A powerful depression phenotype: Trajectories of anxiety and depression between age 7 and age 18 and the role of genetic factors. *Neuropsychiatric Genetics*. PMID: 26334918
  18. Docherty A.R., Panizzon, M.S., Sawyers, C.K., Neale, M.C., Eyer, L.T., Fennema-Notestine, C., Franz, C.E., Chen, C., McEvoy, L.K., **Verhulst, B.**, Tsuang, M.T., & Kremen, W.S. (2015) Genetic network properties of the human cortex based on regional thickness and surface area measures. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2015.00440. PMCID: PMC4542323
  17. Long, E. C., Hill, J., Luna, B., **Verhulst, B.**, Clark, D. B. (2015). Disruptive behavior disorders and indicators of disinhibition in adolescents: The BRIEF-SR, anti-saccade task, and D-KEFS color-word interference test. *Journal of Adolescence*, 44: 182-190. PMCID: PMC4632655.
  16. Savage, J., **Verhulst, B.**, Copeland, W., Althoff, R.R., Lichtenstein, P., & Roberson-Nay, R. (2015) A Genetically Informed Study of the Longitudinal Relation Between Irritability and Anxious/Depressed Symptoms. *Journal of the American Academy of Child Adolescent Psychiatry* 54(5): 377-384. PMCID: PMC4407138
  15. Hatemi, P.K. & **Verhulst, B.** (2015) Political Attitudes Develop Independently of Personality Traits. *PloS one* 10(3): e0118106. PMCID: PMC4347987
  14. **Verhulst, B.**, Neale, M.C. & Kendler, K.S. (2015) A Meta Analysis of Alcohol Abuse and Dependence Twin and Adoption Studies. *Psychological Medicine* 45(5): 1061-1072.
  13. Eaves, L.J. & **Verhulst, B.**, (2014) Problems and pit-falls in testing for GxE and epistasis in candidate gene studies of human behavior. *Behavior Genetics* 44(6): 578-590.
  12. Bergin, J., **Verhulst, B.**, Aggen, S.H., Neale, M.C., Kendler, K.S., Bienvenu, O.J., & Hettema, J.M. (2014) Obsessive Compulsive Disorder Symptom Dimensions and Neuroticism: An Examination of Shared Genetic and Environmental Risk. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics* 165(8): 647-653.
  11. **Verhulst, B.**, Eaves, L.J., & Neale, M.C. (2014) Moderating the Covariance between Family Members Substance Use Behavior. *Behavior Genetics* 44:337-346.
  10. Hatemi, P.K. Medland, S., McDermott, R., **Verhulst, B.**, Eaves, L.J. & Martin, N.G. (2014) The Genetics of Ideology: 3 Countries, 3 Decades, 15 Measures and a Genome Wide Association. *Behavior Genetics* 44: 282-294.
  9. **Verhulst, B.** & Hatemi, P.K. (2013) Gene-Environment Interplay in Twin Models. *Political Analysis* 21(3):368-389.

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8. **Verhulst, B.**, Hatemi, P.K. & Eaves, L.J. (2012) Covariation not Causation: The Relationship between Personality Traits and Political Ideologies. *The American Journal of Political Science* 56(1):, 34-51.
  7. **Verhulst, B.** & Estabrook, R. (2012) Using Genetic Information to Test Causal relationships in Cross-Sectional Data. *The Journal of Theoretical Politics*, 24(3): 328-344.
  6. **Verhulst, B.**, Hatemi, P.K. & Eaves, L.J. (2012) Disentangling the Importance of Psychological Predispositions and Social Constructions in the Organization of American Political Ideology. *Political Psychology*, 33(3): 375-393.
  5. **Verhulst, B.** (2012) Integrating Classical and Contemporary Explanations of Political Participation. *Twin Research and Human Genetics*, 15(1): 42-51.
  4. Hatemi, P.K., Dawes, C., Keller, A., Settle, J., & **Verhulst, B.** (2011) Integrating Social Science and Genetics: News from the Political Front. *Biodemography and Social Biology*, 57: 67-87.
  3. **Verhulst, B.**, Hatemi, P.K. & Martin, N.G. (2010) The Nature of the Relationship Between Personality Traits and Political Attitudes. *Personality and Individual Differences*, 49: 306-316.
  2. **Verhulst, B.**, Lodge, M. & Lavine, H. (2010). Perceived attractiveness, competence, and electoral success. *Journal of Nonverbal Behavior*, 34: 111-117.
  1. **Verhulst, B.** (2010) Towards a biological understanding of national identification. In Rose McDermott and Peter K. Hatemi, eds., *H-Diplo/ISSF Roundtable Forum on Biology and Foreign Policy, H-Diplo/ISSF Roundtable Forums, Volume I*, No. 1, March 2010.

### **Book Chapters**

3. **Verhulst, B.** & Lodge, M. (2013) Reaction time measures in implicit attitudes research. In Michael Bruner and Martin Lodge (Eds) *From the Engine-Room: Methods and Approaches in Political Science*. Cambridge University Press.
2. Lodge, M., Taber, C. & **Verhulst, B.** (2011). Conscious and Unconscious Information Processing with Implications for Experimental Political Science. In James N. Druckman, Donald P. Green, James H. Kuklinski, and Arthur Lupia (Eds) *Cambridge Handbook of Experimental Political Science*. Cambridge, Mass: Cambridge University Press.
1. **Verhulst, B.** & Lizotte, M.K. (2011) The Influence of Affective States on the Depth of Information Processing. In Marcos Engelken-Jorge, Pedro Ibarra Gell and Carmelo Moreno del Ro (eds.). *Politics and Emotions: The Obama Phenomenon*. Wiesbaden: VS-Verlag.

### **Manuscripts Under Review**

Marina A. Bornovalova, **Brad Verhulst**, Troy Webber, William G. Iacono, Matt McGue, & Brian M. Hicks. Genetic and Environmental Influences on the Co-development between Borderline Personality Disorder, Major Depression, and Substance Use Disorders from Adolescence to Young Adulthood

**Verhulst, B.**, Maes, H.H., & Neale, M.C. GW-SEM: A Statistical Package to Conduct Genome-Wide Structural Equation Modeling

**Verhulst, B.**, Neale, M.C., Chen, J. Maes, H.H., & Chen, X. Clarifying the Genetic Influences on Nicotine Dependence and Quantity of Use.

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Moscato, A., **Verhulst, B.**, Silberg, J.L., Eaves, L.J. Identifying active/evocative gene-environment correlation in longitudinal twin data.

Cecilione, J.L., Rappaport, L.M., **Verhulst, B.**, Carney D.M., Blair, R.J.R., M.A. Brotman, M.A., E. Leibenluft, E., Pine, D.S., Roberson-Nay, R., Hettema, J.M. Test-Retest Reliability of the Facial Expression Labeling Task

## **Manuscripts in Preparation**

**Brad Verhulst.** In Defense of p-values

**Brad Verhulst**, Neale, M.C., Eaves, L.J., Medland, S.E., Heath, A.C., Martin, N.G. & Maes, H.H. An Extended Twin Study of Alcohol Use in Virginia and Australia

**Verhulst, B.** A Power Calculator for the Classical Twin Design

Bourdon, J.L., Lee, M., **Verhulst, B.**, Carney, D.M., Moroney, E., Machlin, L., Towbin, K.A., Brotman, M.A., Pine, D.S., Leibenluft, E., Roberson-Nay, R., Hettema, J.M. Exploring the Psychometrics of the Retrospective Behavioral Inhibition Questionnaire (RBIQ)

*\*Information regarding manuscripts under review & in preparation available upon request*

## **Invited Symposia**

Queensland Institute for Medical Research (August 12, 2013) Neat ways to get big data fast on the web

National Institute of Drug Abuse at the National Institute of Health (December 6, 2012) A Genetically Informative Parallel Process Growth Model of Conduct Disorder and Substance Use Behavior in Adolescent Twins

National Institute of Drug Abuse at the National Institute of Health (November 30, 2011) Moderating the Covariance between Family Members Drinking Behavior

Aarhus University (October 18, 2011) Personality Traits and Attitudes

University of Southern Denmark (September 30, 2011) Personality Traits and Attitudes

New York University Jost Lab (December 9, 2009) The Covariance between Personality traits and Political Attitudes

## **Courses Taught**

### **Undergraduate**

Introduction to Statistics for Political Science (Summer I, 2007)

American Foreign Policy (Summer 2008)

Political Psychology (Summer 2009)

### **Graduate**

Intermediate Statistics Regression (Fall 2009)

Statistics for Genetic Studies I (Fall 2012 & 2013)

Statistics for Genetic Studies II (Spring 2013 & 2014)

## **Select Conference Presentations**

**Brad Verhulst**, Michael C. Neale, Jingchun Chen Sam Chen. Causality. Paper Presented at the 2016 Annual Meeting of the Behavior Genetics Association. Brisbane, Australia.

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**Brad Verhulst**, Michael C. Neale, Jingchun Chen Sam Chen. Disentangling genetic influences on Nicotine Dependence and Quantity of Use. Paper Presented at the 2015 Annual Meeting of the Behavior Genetics Association. San Diego, Ca.

**Brad Verhulst**, Hermine Maes, & Michael Neale. Developing a Package to estimate Latent Growth Curve Models with Genome Wide Data. Paper Presented at the 2014 Annual Meeting of the Behavior Genetics Association. Charlottesville, Va.

**Brad Verhulst**, Michael Neale& Lindon Eaves. Simulating Genomic Data under Gene-Environment Interplay. Paper Presented at the 2013 Annual Meeting of the Behavior Genetics Association. Marseille, Fr.

**Brad Verhulst**, Shaunna Clark, Nathan Gillespie, Michael Neale, Hermine Maes, Judy Silberg, & Lindon Eaves. A Genetically Informative Parallel Process Growth Model of Externalizing Personality Traits and Smoking Behavior in Adolescent Twins. Paper Presented at the 2012 Annual Meeting of the Behavior Genetics Association. Edinburgh, UK.

**Verhulst, B.**, Maes, H. Neale., M., & Eaves, L.J. Moderating the Covariance between Family Members Drinking Behavior. Paper Presented at the 2011 Annual Meeting of the Behavior Genetics Association. Newport, RI.

### **Professional Service**

Editorial Board at *Frontiers Genetics* (2011 – Present)

Lecturer of the Department of Political Science, Stony Brook University (2007 - 2010)

Lab Coordinator for the Laboratory for Political Research, Stony Brook University (2007 - 2010)

Member of the External Speaker Series Committee (2008 - 2009)

ISPP Junior Scholar Committee (2008 – 2009)

Editorial Assistant for Political Psychology (June 2007 - 2010)

Ad Hoc reviewer for *Psychological Medicine*, *Proceedings of the National Academy of Sciences*, *Political Psychology*, *Political Behavior*, *European Journal of Social Psychology*, *American Journal of Political Science*, *Journal of Politics*, *Journal of Conflict Resolution*, *Twin Research and Human Genetics*, *Psychology and Sexuality*, *Behavior Genetics*, *Frontiers Genetics*, *International Journal of Psychology*, *Journal of Personality*, *Journal of Politics*, *Journal of Child Psychology and Psychiatry*, & *Journal of Studies on Alcohol and Drugs*.