

**1. PERSONAL INFORMATION**

Name: Colin G. DeYoung

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**2. EDUCATION**

<u>Degree</u>	<u>Year</u>	<u>Institution</u>
A.B. <i>magna cum laude</i> (History of Science, with certificate in Mind, Brain, and Behavior)	1998	Harvard University
M.A. (Psychology)	2000	University of Toronto
Ph.D. (Psychology)	2005	University of Toronto

Doctoral Thesis: *Cognitive ability and externalizing behavior in a psychobiological personality framework.*

Supervisor: Jordan B. Peterson, Ph.D.

**3. EMPLOYMENT**

<u>Appointment</u>	<u>Rank</u>	<u>Dates</u>
Department of Psychology University of Minnesota	Assistant Professor	July 25, 2008–present
Department of Psychology Yale University	Postdoctoral Fellow Postdoctoral Associate	April 1, 2006–July 24, 2008 Oct. 16, 2005–Mar. 31, 2006
Department of Psychology University of Toronto	Course Instructor Course Instructor Teaching Assistant	Jan. 1–Apr. 30, 2005 May 1– Jun. 30, 2002 & 2003 1999-2005

**4. AWARDS, HONORS, AND SCHOLARSHIPS**

<u>Award</u>	<u>Date</u>
J. S. Tanaka Dissertation Award, from the Association for Research in Personality (1 given annually)	January, 2007
National Research Service Award (NIMH # F32 MH077382) “Neural Mechanisms of Cognition in ADHD and Externalizing Behavior”	April, 2006-July, 2008
Travel award to attend annual meeting of the International Society for Research on Impulsivity, Washington, D.C.	November, 2005

NIH-sponsored student travel award to attend conference, "The Biological Basis of Personality and Individual Differences," Stony Brook University.	August, 2004
Ontario Graduate Scholarship.	2004-2005
Ontario Graduate Scholarship.	2003-2004
University of Toronto Connaught Scholarship.	2000-2004
University of Toronto Fellowship.	1999-2000
University of Toronto Mary H. Beatty Fellowship.	1999-2000
<i>Magna cum Laude</i> for A.B. honors thesis.	June, 1998
John Harvard Scholarship for Highest Academic Achievement, Harvard University.	1996-1998
Harvard College Research Program Fellowship.	June, 1997
Dean's Summer Research Award, Harvard University.	June, 1997

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## 5. PEER-REVIEWED ARTICLES

26. **DeYoung, C. G.**, Hirsh, J. B., Shane, M. S., Papademetris, X., Rajeevan, N., & Gray, J. R. (in press). Testing Predictions from Personality Neuroscience: Brain structure and the Big Five. *Psychological Science*.
25. **DeYoung, C. G.**, Getchell, M., Kuposov, R. A., Yrigollen, C. M., Haeffel, G. J., af Klinteberg, B., Orelund, L., Ruchkin, V. V., Pakstis, A. J., & Grigorenko, E. (in press). Variation in the catechol-O-methyltransferase Val<sup>158</sup>Met polymorphism associated with conduct disorder and ADHD symptoms. *Psychiatric Genetics*.
24. Hirsh, J. B., **DeYoung, C. G.**, Xu, X., & Peterson, J. B. (in press). Compassionate liberals and polite conservatives: Associations of Agreeableness with political ideology and values. *Personality and Social Psychology Bulletin*.
23. **DeYoung, C. G.**, Shamosh, N. A., Green, A. E., Braver, T. S., & Gray, J. R. (in press). Intellect as distinct from Openness: Differences revealed by fMRI of working memory. *Journal of Personality and Social Psychology*.
22. Hirsh, J. B., **DeYoung, C. G.**, & Peterson, J. B. (2009). Metatraits of the Big Five differentially predict engagement and restraint of behavior. *Journal of Personality*, 77, 1085–1102.
21. Kaufman, S. B., **DeYoung, C. G.**, Gray, J. R., Brown, J., & Mackintosh, N. J. (2009). Associative learning predicts intelligence above and beyond working memory and processing speed. *Intelligence*, 37, 374–382.
20. Spence, I., **DeYoung, C. G.**, & Feng, J. (2009). The Technology Profile Inventory: Construction, validation, and application. *Computers in Human Behavior*, 25, 458–465.
19. **DeYoung, C. G.**, Peterson, J. B., Séguin, J. R., Pihl, R. O., & Tremblay, R. E. (2008). Externalizing behavior and the higher-order factors of the Big Five. *Journal of Abnormal Psychology*, 117, 947–953.
18. Müller, D.J., Mandelli, L., Serretti, A., **DeYoung, C.G.**, De Luca, V., Sicard, T., Tharmalingam, S., Gallinat, J., Muglia, P., De Ronchi, D., Jain, U., & Kennedy, J.L. (2008). Serotonin transporter gene and adverse life events in adult ADHD. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 147B, 1461–1469.
17. Choi, Y. Y., Shamosh, N. A., Cho, S. H., **DeYoung, C. G.**, Lee, M. J., Lee, J.-M., Kim, S. I., Cho, Z.-H., Kim, K., Gray, J. R., & Lee, K. H. (2008). Multiple bases of human intelligence revealed by cortical thickness and neural activation. *Journal of Neuroscience*, 28, 10323–10329.

16. Shamosh, N. A., **DeYoung, C. G.**, Green, A. E., Reis, D. L., Johnson, M. R., Conway, A. R. A., Engle, R. W., Braver, T. S., & Gray, J. R. (2008). Individual differences in delay discounting: Relation to intelligence, working memory, and anterior prefrontal cortex. *Psychological Science, 19*, 904–911.
15. Green, A. E., Munafo, M. R., **DeYoung, C. G.**, Fossella, J. A., Fan, J., & Gray, J. R. (2008). Using genetic data in cognitive neuroscience: From growing pains to genuine insights. *Nature Reviews Neuroscience, 9*, 710-720.
14. **DeYoung, C. G.**, Flanders, J. L., & Peterson, J. B. (2008). Cognitive abilities involved in insight problem solving: An individual differences model. *Creativity Research Journal, 20*, 278-290.
13. Haeffel, G. J., Getchell, M., Kuposov, R. A., Yrigollen, C. M., **DeYoung, C. G.**, of Klinteberg, B., Orelan, L., Ruchkin, V. V., & Grigorenko, E. L. (2008). Association between polymorphisms in the dopamine transporter gene and depression: Evidence for a gene-environment interaction in a sample of juvenile detainees. *Psychological Science, 19*, 62-69.
12. **DeYoung, C. G.**, Quilty, L. C., & Peterson, J. B. (2007). Between facets and domains: 10 aspects of the Big Five. *Journal of Personality and Social Psychology, 93*, 880-896.
11. Grigorenko, E., **DeYoung, C. G.**, Getchell, M., Haeffel, G. J., of Klinteberg, B., Kuposov, R. A., Orelan, L., Pakstis, A. J., Ruchkin, V. V., & Yrigollen, C. M. (2007). Exploring interactive effects of genes and environments in etiology of individual differences in reading comprehension. *Development and Psychopathology, 19*, 1089-1103.
10. **DeYoung, C. G.**, Hasher, L., Djikic, M., Criger, B., & Peterson, J. B. (2007). Morning people are stable people: Circadian rhythm and the higher-order factors of the Big Five. *Personality and Individual Differences, 43*, 267-276.
9. **DeYoung, C. G.** (2006). Higher-order factors of the Big Five in a multi-informant sample. *Journal of Personality and Social Psychology, 91*, 1138-1151.
8. **DeYoung, C. G.**, Peterson, J. B., Séguin, J. R., Mejia, J. M., Pihl, R. O., Beitchman, J. H., Jain, U., Tremblay, R. E., Kennedy, J. L., & Palmour, R. M. (2006). The dopamine D4 receptor gene and moderation of the association between externalizing behavior and IQ. *Archives of General Psychiatry, 63*, 1410-1416.
7. Mar, R. A., **DeYoung, C. G.**, Higgins, D. M., & Peterson, J. B. (2006). Self-liking and self-competence separate self-evaluation from self-deception: Associations with personality, ability, and achievement. *Journal of Personality, 74*, 1-32.
6. Cunningham, W. A., Espinet, S. D., **DeYoung, C. G.**, & Zelazo, P. D. (2005). Attitudes to the right – and left: Frontal ERP asymmetries associated with stimulus valence and processing goals. *NeuroImage, 28*, 827-834.
5. **DeYoung, C. G.**, Peterson, J. B., & Higgins, D. M. (2005). Sources of Openness/Intellect: Cognitive and neuropsychological correlates of the fifth factor of personality. *Journal of Personality, 73*, 825-858.
4. **DeYoung, C. G.** & Spence, I. (2004). Profiling information technology users: En route to dynamic personalization. *Computers in Human Behavior, 20*, 55-65.
3. Peterson, J. B., **DeYoung, C.G.**, Driver-Linn, E., Séguin, J.R, Higgins, D.M., Arseneault, L., & Tremblay, R. E. (2003). Self-deception and failure to modulate responses despite accruing evidence of error. *Journal of Research in Personality, 37*, 205-223.
2. **DeYoung, C. G.**, Peterson, J. B., & Higgins, D. M.. (2002). Higher-order factors of the Big Five predict conformity: Are there neuroses of health? *Personality and Individual Differences, 33*, 533-552.
1. Peterson, J. B., Driver-Linn, E., & **DeYoung, C. G.** (2002). Self-deception and impaired categorization of anomaly. *Personality and Individual Differences, 33*, 327-340.

## 6. BOOK CHAPTERS AND COMMENTARIES

5. **DeYoung, C. G.** (in press). Impulsivity as a personality trait. In R. F. Baumeister & K. D. Vohs (Eds.). *Handbook of self-regulation*, Second Edition. New York: Guilford Press.
4. **DeYoung, C. G.** (in press). Intelligence and personality. In R. J. Sternberg & S. B. Kaufman (Eds.), *The Cambridge handbook of intelligence*. New York: Cambridge University Press.

3. Shiner, R. L., & **DeYoung, C. G.** (in press). The structure of temperament and personality traits: A developmental perspective. In P. D. Zelazo (Ed.), *The Oxford handbook of developmental psychology*. New York: Oxford University Press.
2. **DeYoung, C. G.**, & Gray, J. R. (2009). Personality neuroscience: Explaining individual differences in affect, behavior, and cognition. In P. J. Corr & G. Matthews (Eds.), *The Cambridge handbook of personality psychology* (pp. 323–346). New York: Cambridge University Press.
1. Peterson, J. B., & **DeYoung, C. G.** (2000). Metaphoric threat is more real than real threat. *Behavioral and Brain Sciences*, 23, 992-993.

## **7. PAPERS PRESENTED AT MEETINGS AND SYMPOSIA**

### **7.A. Invited Talks**

5. DeYoung, C. G. (2007). Genetics of externalizing behavior: Dopamine genes and complex associations. Presentation at the Institute of Psychiatry, King's College London.
4. DeYoung, C. G. (2007). Elaborating the Big Five hierarchy: Toward a psychobiological framework. Presentation in the Jack Block Award Symposium, "What are the most fundamental personality dimensions? The Big Five and alternatives." Annual meeting of the Association for Research in Personality, Memphis, Tennessee.
3. DeYoung, C. G. (2007). Cognitive ability and externalizing behavior in a psychobiological personality framework. Presentation for reception of the J.S. Tanaka Dissertation Award. Annual meeting of the Association for Research in Personality, Memphis, Tennessee.
2. DeYoung, C. G. (2005). Impulsivity and externalising behavior in a psychological personality framework based on the Big Five. Lecture in the seminar, "Dopamine, impulsivity and behavior regulation." GRIP Research Unit on Childrens' Psychosocial Maladjustment, Universite de Montreal, Montreal, Canada.
1. DeYoung, C. G. (2005). Variation in the dopamine D4 receptor gene moderates the association between externalizing behavior and IQ. Lecture in the seminar, "Dopamine, impulsivity and behavior regulation." GRIP Research Unit on Childrens' Psychosocial Maladjustment, Universite de Montreal, Montreal, Canada.

### **7.B. Talks and Symposia**

14. DeYoung, C. G. (2009). Intellect as distinct from Openness: Differences revealed by fMRI of working memory. Paper presented in C. G. DeYoung (Chair), Personality in the magnet: Using fMRI to study individual differences. Symposium presented at the annual meeting of the Association for Research in Personality, Evanston, Illinois.
13. DeYoung, C. G. (2009). Externalizing behavior and cognition: Dopamine genes and complex associations. Paper presented in A. E. Green (Chair), Vertically integrating molecular genetics, cognitive neuroscience, and psychology. Symposium presented at the 16<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
12. Green, A. E., Kim, J. U., Cohen, M. S., DeYoung, C. G., & Gray, J. R. (2009). Analogical reasoning ability mediates the relation between intelligence and creativity. Paper presented at the 16<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
11. DeYoung, C. G. (Chair) (2009). Personality neuroscience: Exploring the biology of traits. Symposium presented at the 9<sup>th</sup> annual meeting of the Society for Personality and Social Psychology, Tampa, Florida.
10. DeYoung, C. G., & Gray, J. R. (2007). Openness to Experience predicts performance and neural activity during a working memory task. Paper presented at the 37<sup>th</sup> annual meeting of the Society for Neuroscience, San Diego, California.

9. DeYoung, C. G. (2007). Psychobiology of personality in the Big Five model. Paper presented at the 13<sup>th</sup> Biennial Meeting of the International Society for the Study of Individual Differences, Giessen, Germany.
8. DeYoung, C. G., Peterson, J. B., & Flanders, J. L. (2006). The sources of insight: Conscious and unconscious problem solving. Paper presented at the conference "Toward a Science of Consciousness," Tucson, Arizona.
7. Müller, D. J., DeYoung, C. G., Sicard, T., Tharmalingam, S., Muglia, P., Jain, U., & Kennedy, J. L. (2005). The serotonin transporter polymorphism may modulate severity of adult ADHD symptoms in conjunction with adverse life events. Paper presented at the 13th Congress of the Association of European Psychiatrists.
6. DeYoung, C. G. & Peterson, J. B. (2003). Consciousness and personality. Paper presented at the conference "Towards a Science of Consciousness: Between Phenomenology and Neuroscience." Prague, Czech Republic.
5. DeYoung, C. G. & Spence, I. (2002). Dynamic personalization using the Technology Profile Inventory: Development of an instrument for profiling information technology users. Paper presented at the 32<sup>nd</sup> annual meeting of the Society for Computers in Psychology. Kansas City, Missouri.
4. DeYoung, C. G. & Peterson, J. B. (2002). Impulsiveness as an emergent trait of the Big Five. In Peterson, J. B. (Chair) Cognitive rigidity and self-deception: Implications for social and interpersonal aggression. Symposium presented at the 15<sup>th</sup> world meeting of the International Society for Research on Aggression. Montreal, Quebec, Canada.
3. DeYoung, C. G., Peterson, J. B. & Higgins, D. M. (2002). The pros and cons of conformity: What the structure of personality reveals about social identification and individuality. In Peterson, J. B. (Chair), Self-Deception as a Sin of Omission. Symposium presented at the Second Biannual Conference on Personal Meaning, Vancouver, British Columbia, Canada.
2. DeYoung, C.G. & Peterson, J. B. (2001). Are there neuroses of health? Personality correlates of conformity and self-deception. In J.B. Peterson (Chair), Conformity, self-deception, and group aggression: Narrative and experimental perspectives. Symposium presented at the 62<sup>nd</sup> annual convention of the Canadian Psychological Association. Sainte-Foy, Quebec, Canada.
1. DeYoung, C. G. & Peterson, J. B. (2001). Self-deception and conformity: Problematic strategies for coping with anomaly. In Peterson, J.B. (Chair) Hatred and Conformity: Narrative and Experimental Perspectives. Symposium presented at the Annual Meeting of the Ontario Psychological Association, Toronto, Ontario, Canada.

### **7.C. Posters and Abstracts**

24. Kim, J. U., Cohen, M. S., DeYoung, C. G., Green, A. E., Braver, T. S., & Gray, J. R. (2009). Individual differences in emotional awareness moderate the effects of affective stimuli on working memory performance. Poster presented at the 16<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
23. Hirsh, J. B., DeYoung, C. G., & Peterson, J. B. (2008). Big Five personality meta-traits differentially predict behavioural activation and inhibition. Poster presented at the 20th Annual Convention of the Association for Psychological Science, Chicago, Illinois.
22. DeYoung, C. G., Papademetris, X., Rajeevan, N., & Gray, J. R. (2007). The Big Five personality traits are associated with brain volume in distinct regions. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, New York.
21. DeYoung, C. G., Quilty, L. C., & Peterson, J. B. (2007). The Big Five Aspect Scales: A new instrument assessing ten intermediate-level traits. Poster presented at the 7<sup>th</sup> annual meeting of the Society for Personality and Social Psychology, Memphis, Tennessee.

20. DeYoung, C. G. & Peterson, J. B. (2006). Higher-order factors of the Big Five in multi-informant analysis: Implications for personality theory. Poster presented at the 7<sup>th</sup> annual meeting of the Society for Personality and Social Psychology, Palm Springs, California.
19. DeYoung, C. G., Peterson, J. B., Séguin, J. R., Mejia, J. M., Pihl, R. O., Beitchman, J. H., Jain, U., Tremblay, R. E. Kennedy, J. L., & Palmour, R. M. (2005). Genetic moderation of the association between impulsivity and cognitive ability. Poster presented at the meeting of the International Society for Research on Impulsivity, Washington, DC.
18. DeYoung, C. G. & Peterson, J.B. (2005). Between facets and domains: Ten aspects of the Big Five. Poster presented at the 6<sup>th</sup> annual meeting of the Society for Personality and Social Psychology, New Orleans, Louisiana.
17. Flanders, J. L., DeYoung, C. G., & Peterson, J. B. (2005). Insight problem solving predicts creative achievement. Poster presented at the 6<sup>th</sup> annual meeting of the Society for Personality and Social Psychology, New Orleans, Louisiana.
16. DeYoung, C. G., Peterson, J. B., Séguin, J. R., Mejia, J. M., Pihl, R. O., Beitchman, J. H., Jain, U., Tremblay, R. E. Kennedy, J. L., & Palmour, R. M. (2004). The 7-repeat allele of the DRD4 gene is associated with Openness and attenuates the association between IQ and externalizing behavior. Poster presented at the conference "The Biological Basis of Personality and Individual Differences." Stony Brook, New York.
15. DeYoung, C. G., Flanders, J. L., & Peterson, J.B. (2004). Individual differences in insight problem solving ability. Poster presented at 112<sup>th</sup> annual convention of the American Psychological Association. Honolulu, Hawai'i.
14. Happaney, K. R., DeYoung, C. G., Mashari, A., & Zelazo, P. D. (2004). Somatic markers and the gambling task: Evidence from preschool-age children. Poster presented at the 34<sup>th</sup> annual meeting of the Jean Piaget Society. Toronto, Canada.
13. Flanders, J. L., DeYoung, C. G., & Peterson, J. B. (2003). Cognitive abilities that predict insightfulness: An individual differences study. Poster presented at the annual convention of the American Psychological Association, Toronto, Canada.
12. DeYoung, C. G., Shane, M. S., Peterson, J. B., Séguin, J. R., & Tremblay, R. E. (2003). How is self-deception like psychopathy? Poster presented at the conference "Developmental and Neuroscience Perspectives on Psychopathy." Madison, Wisconsin.
11. DeYoung, C. G. & Spence, I. (2003). The Technology Profile Inventory: Individual differences in responses to information technology. Poster presented at the 10<sup>th</sup> International Conference on Human - Computer Interaction, Heraklion, Crete, Greece.
10. DeYoung, C. G. & Spence, I. (2003). Individual differences in responses to information technology. Poster presented at the 15<sup>th</sup> annual convention of the American Psychological Society. Atlanta, Georgia.
9. DeYoung, C. G. & Peterson, J. B. (2003). Impulsivity as a complex trait resulting from the interaction of Stability and Plasticity, the higher-order factors of the Big Five. Poster presented at the 4<sup>th</sup> annual meeting of the Society for Personality and Social Psychology. Los Angeles, California.
8. Peterson, J. B., DeYoung, C. G., Séguin, J. R., & Tremblay, R. E. (2003). Agreeableness and the higher-order personality factor Plasticity predict violent antisocial behavior over and above IQ, executive function, and familial adversity. Poster presented at the 4<sup>th</sup> annual meeting of the Society for Personality and Social Psychology. Los Angeles, California.
7. DeYoung, C. G. & Spence, I. (2002). Toward dynamic personalization: The Technology Profile Inventory. Poster presented at IBM Centers for Advanced Studies Conference, Toronto, Ontario, Canada.
6. DeYoung, C.G. & Peterson, J. B (2002). Extraversion & IQ predict independent variance in Openness to Experience. Poster presented at the 14<sup>th</sup> annual convention of the American Psychological Society. New Orleans, Louisiana, USA.

5. DeYoung, C. G. & Peterson, J. B. (2002) The frame problem: A solution and its implications for human information processing. Poster presented at the conference "Toward a Science of Consciousness," Tucson, Arizona.
4. DeYoung, C. G., Peterson, J. B. & Higgins, D. M. (2002). Prefrontal cognitive ability predicts Openness to Experience. Poster presented at the third annual meeting of the Society for Personality and Social Psychology. Savannah, Georgia.
3. DeYoung, C. G. & Spence, I. (2001). The Technology Profile Inventory: A self-report questionnaire for assessing attitudes toward information technology. Poster presented at the Annual Meeting of the European Association for Psychological Assessment. Aachen, Germany.
2. DeYoung, C.G., Peterson, J. B., & Higgins, D. M. (2001). Overconfidence and conformity are associated with distinct personality profiles. Poster presented at the 13<sup>th</sup> annual convention of the American Psychological Society. Toronto, Ontario, Canada.
1. DeYoung, C. G., Peterson, J. B., & Higgins, D. M. (2001). Socially desirable responding is related to higher-order factors of the Big Five. Poster presented at the second annual meeting of the Society for Personality and Social Psychology. San Antonio, Texas.