

William Revelle  
Department of Psychology  
Northwestern University  
847-491-7700  
revelle@northwestern.edu

## Education

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**University of Michigan, Department of Psychology** 1968-1973  
Rackham Prize Fellow, 1970-1972  
Ph.D. in Psychology received December, 1973  
**Pomona College: 1961-1965** B.A. in Psychology received June, 1965

## Employment

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### **Northwestern University**

Chairman, Department of Psychology 1987–1993, 1998–2001  
Professor of Psychology 1984 - present  
Associate Professor of Psychology 1979 - 1984  
Assistant Professor of Psychology 1973 - 1979

### **University of Michigan**

Teaching Assistant, 1972-1973  
Research Assistant, 1968-1971

**United States Peace Corps Volunteer** Sarawak, Malaysia 1965-1967

## Professional Interests

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Psychometric theory and applications  
Personality theory and human motivation  
The effects of personality, motivational, and situational variables on cognitive processes  
Biological bases of affect, personality and behavior

## Google Scholar

<https://scholar.google.com/citations?user=293jbW0AAAAJ&hl=en>

## Honors and Awards

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Life Time Achievement Award, European Association of Personality (2020)  
President, International Society for Intelligence Research 2018-2019  
President, Association for Research in Personality 2007-2009  
President, International Society for the Study of Individual Differences 2005-2009  
President, Society of Multivariate Experimental Psychology, 1984-1985  
Chair, Governing Board, Bulletin of Atomic Scientists, 2009 - 2012  
Vice-Chair, Governing Board, Bulletin of Atomic Scientists, 2013 - 2018  
Board member, Bulletin of the Atomic Scientists, 2007 - 2018, 2020-present  
Fellow, American Association for the Advancement of Science, 1996-present  
Fellow, Association for Psychological Science, 1994-present  
Fellow, American Psychological Association, (Division 5) 2011-present (Division 8) 2016-present  
Fellow, Society of Personality and Social Psychology 2015-present  
Member, Council of Representatives of the American Psychological Association (for Division 5) 2015-2017  
Board of Trustees, Federation of American Scientists Educational Fund, 1993-2001  
Director, International Society for the Study of Individual Differences, 1989-1995 and 2003-2011  
National Institute of Mental Health Initial Review Group (Cognition, Emotion and Personality) 1986-June, 1990.  
Fogarty Senior International Fellow (academic year spent with Donald Broadbent and Jeffrey Gray at Oxford Univ.) 1981-1982

## Major publications

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1. Revelle, W., Amaral, P., and Turriff, S. (1976). Introversion-extraversion, time stress, and caffeine: effect on verbal performance. *Science*, 192:149-150
2. Revelle, W. and Michaels, E. J. (1976). Theory of achievement-motivation revisited - implications of inertial tendencies. *Psychological Review*, 83(5):394-404
3. Revelle, W., Humphreys, M. S., Simon, L., and Gilliland, K. (1980). Interactive effect of personality, time of day, and caffeine: A test of the

- arousal model. *Journal of Experimental Psychology General*, 109(1):1–31
4. Humphreys, M. S. and Revelle, W. (1984). Personality, motivation, and performance: A theory of the relationship between individual differences and information processing. *Psychological Review*, 91(2):153–184
  5. Revelle, W. (1995). Personality processes. *Annual Review of Psychology*, 46:295–328
  6. Revelle, W. and Zinbarg, R. E. (2009). Coefficients alpha, beta, omega and the glb: comments on Sijtsma. *Psychometrika*, 74(1):145–154
  7. Condon, D. M. and Revelle, W. (2014). The International Cognitive Ability Resource: Development and initial validation of a public-domain measure. *Intelligence*, 43:52–64
  8. Gerlach, M., Farb, B., Revelle, W., and Amaral, L. A. N. (2018). A robust data-driven approach identifies four personality types across four large data sets. *Nature Human Behaviour*, 2(10):735–742
  9. Revelle, W. and Condon, D. M. (2019b). Reliability from alpha to omega: A tutorial. *Psychological Assessment*, 31(12):1395–1411
  10. Revelle, W., Dworak, E. M., and Condon, D. M. (2020a). Cognitive ability in everyday life: the utility of open source measures. *Current Directions in Psychological Science*

## Research Support

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- (CI) (Gershon, Condon, Rentz, Mangravite, & Weiner PIs) The Mobile-Toolbox for Monitoring Cognitive Function NIH/NIA U2CAG060426 9/15/2018-5/31/2023
- (PI) Revelle, W. The International Cognitive Ability Resource. NSF SMA-1419324. 4/1/14-3/31/18.
- Co-I (Michael Wolf, PI): LITCOG III: Health Literacy and Cognitive Function among Older Adults. NIH/NIA 2 R01 AG30611-XX (2017-2020)
- Co-I (Michael Wolf, PI): LITCOG II: Health Literacy and Cognitive Function among Older Adults. NIH/NIA 2 R01 AG30611-04 (2007-2016)
- (Sponsor) PI: Wilt, Joshua: National Research Service Award for predoctoral training. 1 F31 MH093041-01 (1/01/11-6/30/12)

- (Co-PD/PI). Federman, Alex (PI): Seniors' health literacy, beliefs and asthma self-management NIA. (9/15/09-6/30/11).
- Co-PI (with Eva Hudlicka) Methodology and Models of Individual Differences, Psychometrix STTR contract from US. Army Research Institute. 1999
- PI: DOD ASSERT grant Personality, Motivation and Cognitive Performance 1996-1999.
- Co-PI (With Kristen J. Anderson) on US. Army Research Institute contract: Personality, Motivation and Cognitive Performance. MDA903-90-C-0108 (7/25/90- 3/31/93), MDA903-93-K-0008 (9/1/93- 8/31/97).
- Principal investigator for NIMH grant R01-MH-29209 titled Personality, Motivation, and Performance. 1/1/81 to 6/30/84.
- Fogarty senior international fellowship for partial support of sabbatical year at Department of Experimental Psychology, University of Oxford, 1981-1982.
- Co-PI (With Michael Humphreys) for NIMH grant R01-MH-29209 titled Stress: individual differences and memory. 1/1/78-12/31/80.

## Articles

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100. Dworak, E. M. and Revelle, W. (2020). Astrology versus astronomy: Comments on Ashton and Lee. *European Journal of Personality (in press)*
99. Bailey, J. M., Blanchard, R., Hsu, K. J., and Revelle, W. (2020). A map of desire: multidimensional scaling of men's sexual interest in male and female children and adults. *Psychological Medicine*, pages 1–7
98. Revelle, W., Dworak, E. M., and Condon, D. M. (2020a). Cognitive ability in everyday life: the utility of open source measures. *Current Directions in Psychological Science*
97. Revelle, W., Dworak, E. M., and Condon, D. M. (2020b). Exploring the persome: The power of the item in understanding personality structure. *Personality and Individual Differences*
96. Dworak, E. M., Revelle, W., Doebler, P., and Condon, D. M. (2020). Using the International Cognitive Ability Resource as an open source tool to explore individual differences in cognitive ability. *Personality and Individual Differences*

95. Elleman, L. G., McDougald, S., Revelle, W., and Condon, D. (2020). That takes the biscuit: A comparative study of predictive accuracy and parsimony of four statistical learning techniques in personality data, with data missingness conditions. *European Journal of Psychological Assessment* (*in press*)
94. Gerlach, M., Revelle, W., and Amaral, L. A. N. (2019). Reply to: Four personality types may be neither robust nor exhaustive. *Nature Human Behaviour*, 3(10):1047–1048
93. Revelle, W. and Condon, D. M. (2019b). Reliability from alpha to omega: A tutorial. *Psychological Assessment*, 31(12):1395–1411
92. Wilt, J. and Revelle, W. (2019). The big five, everyday contexts and activities, and affective experience. *Personality and Individual Differences*, 136(1):140–147
91. Revelle, W. and Wilt, J. A. (2019a). Analyzing dynamic data: a tutorial. *Personality and Individual Differences*, 136(1):38–51
90. Gerlach, M., Farb, B., Revelle, W., and Amaral, L. A. N. (2018). A robust data-driven approach identifies four personality types across four large data sets. *Nature Human Behaviour*, 2(10):735–742
89. Azis, M., Strauss, G. P., Walker, E., Revelle, W., Zinbarg, R., and Mittal, V. (2018). Factor analysis of negative symptom items in the structured interview for prodromal syndromes. *Schizophrenia Bulletin*, page sby177
88. Elleman, L. G., Condon, D. M., Russin, S. E., and Revelle, W. (2018). The personality of U.S. states: Stability from 1999 to 2015. *Journal of Research in Personality*, 72:64 – 72. Special issue of Replication of Critical Findings in Personality Psychology
87. Revelle, W. and Condon, D. M. (2017a). Climate: Weather:: Traits: States. *European Journal of Personality*, 31(5):564–565
86. Anand, D., Wilt, J., and Revelle, W. (2017). Within-subject covariation between depression- and anxiety-related affect. *Cognition and Emotion*, 31(5):1055–1061
85. Condon, D. M., Roney, E., and Revelle, W. (2017). A SAPA Project update: On the structure of phrased self-report personality items. *Journal of Open Psychology Data*, 5(1)

84. Wilt, J., Bleidorn, W., and Revelle, W. (2016). Finding a life worth living: Meaning in life and graduation from college. *European Journal of Personality*, 30:158–167
83. Wilt, J., Bleidorn, W., and Revelle, W. (2017). Velocity explains the links between personality states and affect. *Journal of Research in Personality*, 69(86-95)
82. Revelle, W. and Wilt, J. (2016). The data box and within subject analyses: A comment on Nesselroade and Molenaar. *Multivariate Behavioral Research*, 51(2-3):419–421
81. Revelle, W. (2016a). Hans Eysenck: Personality Theorist. *Personality and Individual Differences*, 103:32–39
80. Condon, D. M. and Revelle, W. (2016). Selected ICAR data from the SAPA-Project: Development and initial validation of a public-domain measure. *Journal of Open Psychology Data*
79. Condon, D. M. and Revelle, W. (2015a). Selected ICAR data from the SAPA-Project: Development and initial validation of a public-domain measure. *Harvard Dataverse*
78. Condon, D. M. and Revelle, W. (2015c). Selected personality data from the SAPA-Project: On the structure of phrased self-report items. *Journal of Open Psychology Data*, 3(1)
77. Condon, D. M. and Revelle, W. (2015b). Selected personality data from the SAPA-Project: 08dec2013 to 26jul2014. *Harvard Dataverse*
76. Kendall, A. D., Zinbarg, R. E., Mineka, S., Bobova, L., Prenoveau, J. M., Revelle, W., and Craske, M. G. (2015). Prospective associations of low positive emotionality with first onsets of depressive and anxiety disorders: Results from a 10-wave latent trait-state modeling study. *Journal of Abnormal Psychology*, 124(4):933–943
75. Condon, D. M. and Revelle, W. (2015c). Selected personality data from the SAPA-Project: On the structure of phrased self-report items. *Journal of Open Psychology Data*, 3(1)
74. Condon, D. M., Wilt, J., Cohen, C. A., Revelle, W., Hegarty, M., and Uttal, D. H. (2015). Sense of direction: General factor saturation and associations with the big-five traits. *Personality and Individual Differences*, 86:38–43

73. Wilt, J. and Revelle, W. (2015a). Affect, behaviour, cognition and desire in the big five: An analysis of item content and structure. *European Journal of Personality*, 29(4):478–497
72. Wilt, J. A. and Revelle, W. (2015b). Suggestions for building upon a strong foundation for situation research. *European Journal of Personality*, 29(3):415–416
71. Kendall, A. D., Zinbarg, R. E., Bobova, L., Mineka, S., Revelle, W., Prenoveau, J., and Craske, M. G. (2016). Measuring positive emotion with the mood and anxiety symptom questionnaire: Psychometric properties of the anhedonic depression scale. *Assessment*, 23(1):86–95
70. Smillie, L. D., Wilt, J., Kabbani, R., Garratt, C., and Revelle, W. (2015). Quality of social experience explains the relation between extraversion and positive affect. *Emotion*, 15(3):339–349
69. Revelle, W. and Condon, D. M. (2015b). A model for personality at three levels. *Journal of Research in Personality*, 56:70–81
68. Curtis, L., Revelle, W., Waite, K. R., Wilson, E. A. H., Condon, D., Bojarski, E., Park, D. C., Baker, D., and Wolf, M. (2015). Development and validation of the comprehensive health activities scale: A new approach to health literacy measurement. *Journal of Health Communication*, 20:157–164
67. Kendall, A. D., Wilt, J., Walls, C. E., Scherer, E. A., Beardslee, W. R., Revelle, W., and Shrier, L. A. (2014). The social context of positive and negative affective states in depressed youth. *Journal of Social and Clinical Psychology*, 33(9):805–830
66. Skogsberg, K., Grabowecky, M., Wilt, J., Revelle, W., Iordanescu, L., and Suzuki, S. (2015). A relational structure of voluntary visual-attention abilities. *Journal of Experimental Psychology: Human Perception and Performance*, 41(3):761–789
65. Condon, D. M. and Revelle, W. (2014). The International Cognitive Ability Resource: Development and initial validation of a public-domain measure. *Intelligence*, 43:52–64
64. Hauner, K. K., Zinbarg, R., and Revelle, W. (2014). A latent variable model approach to estimating systematic bias in the oversampling method. *Behavior Research Methods*, 46(3):786–797

63. Revelle, W. and Wilt, J. (2013). The general factor of personality: A general critique. *Journal of Research in Personality*, 47(5):493–504
62. Smillie, L. D., Geaney, J., Wilt, J., Cooper, A. J., and Revelle, W. (2013). Aspects of extraversion are unrelated to pleasant affective reactivity: Further examination of the affective reactivity hypothesis. *Journal of Research in Personality*, 47(5):580–587
61. Wilson, S., Revelle, W., Stroud, C. B., and Durbin, C. E. (2013). A confirmatory bifactor analysis of the inventory of interpersonal problems-circumplex and associations of interpersonal traits across multiple relationship contexts and measures. *Psychological Assessment*, 25(2):353–365
60. Wolf, M. S., Curtis, L. M., Wilson, E. A. H., Revelle, W., Waite, K. R., Smith, S. G., Weintraub, S., Borosh, B., Rapp, D. N., Park, D. C., Deary, I. C., and Baker, D. W. (2012). Literacy, cognitive function, and health: results of the LitCog study. *Journal of general internal medicine*, 27(10):1300–7
59. Smillie, L. D., Cooper, A., Wilt, J., and Revelle, W. (2012). Do extraverts get more bang for the buck? refining the affective-reactivity hypothesis of extraversion. *Journal of Personality and Social Psychology*, 103(2):306–326
58. Wilt, J., Condon, D. M., Brown-Riddell, A., and Revelle, W. (2012). Fundamental questions in personality. *European Journal of Personality*, 26(6):629–631
57. Condon, D. M., Brown-Riddell, A., Wilt, J., and Revelle, W. (2012). Scale issues in casuality. *European Journal of Personality*, 26:393–395
56. Swarat, S., Ortony, A., and Revelle, W. (2012). Activity matters: Understanding student interest in school science. *Journal of Research in Science Teaching*, 49(4):515–537
55. Oehlberg, K. A., Revelle, W., and Mineka, S. (2012). Time-course of attention to negative stimuli: Negative affectivity, anxiety, or dysphoria. *Emotion*, 12(5):943–959
54. Schalet, B., Durbin, E., and Revelle, W. (2011). Multidimensional structure of the hypomanic personality scale. *Psychological Assessment*, 23(2):504–522

53. Wilt, J., Oehlberg, K., and Revelle, W. (2011c). Anxiety in personality. *Personality and Individual Differences*, 50(7):987–993
52. Wilt, J., Funkhouser, K., and Revelle, W. (2011b). The dynamic relationships of affective synchrony to perceptions of situations. *Journal of Research in Personality*, 45:309–321
51. Revelle, W., Wilt, J., and Condon, D. (2010a). Levels of personality–discussion on ‘automatic and controlled processes in behavioural control: Implications for personality psychology’ by Corr. *European Journal of Personality*, 24(5):420–422
50. Revelle, W. and Zinbarg, R. E. (2009). Coefficients alpha, beta, omega and the glb: comments on Sijtsma. *Psychometrika*, 74(1):145–154
49. Revelle, W. (2009). Personality structure and measurement: the contributions of Raymond Cattell. *British Journal of Psychology*, 100:253–257
48. Evans, A. M. and Revelle, W. (2008). Survey and behavioral measurements of interpersonal trust. *Journal of Research in Personality*, 42(6):1585–1593
47. Revelle, W. and Wilt, J. (2008). Personality is more than reinforcement sensitivity. *European Journal of Personality*, 22(5):407–409
46. Revelle, W. and Oehlberg, K. (2008). Integrating experimental and observational personality research – the contributions of Hans Eysenck. *Journal of Personality*, 76(6):1387–1414
45. Revelle, W. (2008d). The Association for Research in Personality: the home for psychological generalists. *P (newsletter of the Association for Research in Personality)*, 2(1-5)
44. Rafaeli, E., Rogers, G. M., and Revelle, W. (2007). Affective synchrony: Individual differences in mixed emotions. *Personality and Social Psychology Bulletin*, 33(7):915–932
43. Zinbarg, R. E., Revelle, W., and Yovel, I. (2007). Estimating  $\omega_h$  for structures containing two group factors: Perils and prospects. *Applied Psychological Measurement*, 31(2):135–157
42. Rafaeli, E. and Revelle, W. (2006). A premature consensus: Are happiness and sadness truly opposite affects? *Motivation and Emotion*, 30(1):1–12

41. Zinbarg, R. E., Yovel, I., Revelle, W., and McDonald, R. P. (2006). Estimating generalizability to a latent variable common to all of a scale's indicators: A comparison of estimators for  $\omega_h$ . *Applied Psychological Measurement*, 30(2):121–144
40. Yovel, I., Revelle, W., and Mineka, S. (2005). Who sees trees before forest? The obsessive-compulsive style of visual attention. *Psychological Science*, 16(2):123–129
39. Zinbarg, R. E., Revelle, W., Yovel, I., and Li, W. (2005). Cronbach's  $\alpha$ , Revelle's  $\beta$ , and McDonald's  $\omega_H$ : Their relations with each other and two alternative conceptualizations of reliability. *Psychometrika*, 70(1):123–133
38. Acton, G. S. and Revelle, W. (2004). Evaluation of ten psychometric criteria for circumplex structure. *Methods of Psychological Research*, 9(1):1–27
37. Baehr, E. K., Eastman, C. I., Revelle, W., Olson, S. H. L., Wolfe, L. F., and Zee, P. C. (2003). Circadian phase-shifting effects of nocturnal exercise in older compared with young adults. *American Journal of Physiology- Regulatory, Integrative and Comparative Physiology*, 284(6):R1542–50
36. Acton, G. S. and Revelle, W. (2002). Interpersonal personality measures show circumplex structure based on new psychometric criteria. *Journal of Personality Assessment*, 79(3):446–471
35. Born, W. K., Revelle, W., and Pinto, L. H. (2002). Improving biology performance with workshop groups. *Journal of Science Education and Technology*, 11(4):347–365
34. Dawood, K., Pillard, R. C., Horvath, C., Revelle, W., and Bailey, J. M. (2000). Familial aspects of male homosexuality. *Archives of Sexual Behavior*, 29(2):155–163
33. Gilboa-Schechtman, E., Revelle, W., and Gotlib, I. H. (2000). Stroop interference following mood induction: Emotionality, mood congruence and concern relevance. *Cognitive Therapy and Research*, 24(5):491–502
32. Baehr, E. K., Revelle, W., and Eastman, C. I. (2000). Individual differences in the phase and amplitude of the human circadian temperature rhythm: with an emphasis on morningness-eveningness. *Journal of Sleep Research*, 9(2):117–127

31. Rafaeli-Mor, E., Gotlib, I. H., and Revelle, W. (1999). The meaning and measurement of self-complexity. *Personality and Individual Differences*, 27(2):341–356
30. Rogers, G. M. and Revelle, W. (1998). Personality, mood, and the evaluation of affective and neutral word pairs. *Journal of Personality and Social Psychology*, 74(6):1592–1605
29. Revelle, W. (1995). Personality processes. *Annual Review of Psychology*, 46:295–328
28. Anderson, K. J. and Revelle, W. (1994). Impulsivity and time of day: Is rate of change in arousal a function of impulsivity? *Journal of Personality and Social Psychology*, 67(2):334–344
27. Bailey, J. and Revelle, W. (1991). Increased heritability for lower IQ levels? *Behavior genetics*, 21(4):397–404
26. Revelle, W. and Loftus, D. A. (1990). Individual-differences and arousal - implications for the study of mood and memory. *Cognition and Emotion*, 4(3):209–237
25. Anderson, K. J., Revelle, W., and Lynch, M. J. (1989). Caffeine, impulsivity, and memory scanning: A comparison of two explanations for the Yerkes-Dodson Effect. *Motivation and Emotion*, 13(1):1–20
24. Zinbarg, R. E. and Revelle, W. (1989). Personality and conditioning: A test of four models. *Journal of Personality and Social Psychology*, 57(2):301–314
23. Revelle, W. (1987). Personality and motivation: Sources of inefficiency in cognitive performance. *Journal of Research in Personality*, 21(4):436 – 452
22. Klirs, E. G. and Revelle, W. (1986). Predicting variability from perceived situational similarity. *Journal of Research in Personality*, 20(1):34–50
21. Onken, J., Hastie, R., and Revelle, W. (1985). Individual differences in the use of simplification strategies in a complex decision-making task. *Journal of Experimental Psychology: Human Perception and Performance*, 11(1):14–27

20. Leon, M. R. and Revelle, W. (1985). Effects of anxiety on analogical reasoning: A test of three theoretical models. *Journal of Personality and Social Psychology*, 49(5):1302–1315
19. Humphreys, M. S. and Revelle, W. (1984). Personality, motivation, and performance: A theory of the relationship between individual differences and information processing. *Psychological Review*, 91(2):153–184
18. Romer, D. and Revelle, W. (1984). Personality traits: Fact or fiction? a critique of the Shweder and D'Andrade systematic distortion hypothesis. *Journal of Personality and Social Psychology*, 47(5):1028–1042
17. Bowyer, P., Humphreys, M., and Revelle, W. (1983). Arousal and recognition memory: The effects of impulsivity, caffeine and time on task. *Personality and Individual Differences*, 4(1):41–49
16. Revelle, W. (1983). Factors are fictions, and other comments on individuality theory. *Journal of Personality*, 51(4):707–714
15. Anderson, K. J. and Revelle, W. (1983). The interactive effects of caffeine, impulsivity and task demands on a visual search task. *Personality and Individual Differences*, 4(2):127–134
14. Anderson, K. J. and Revelle, W. (1982). Impulsivity, caffeine, and proofreading: A test of the Easterbrook hypothesis. *Journal of Experimental Psychology: Human Perception and Performance*, 8(4):614–624
13. Rocklin, T. and Revelle, W. (1981). The measurement of extraversion: A comparison of the Eysenck Personality Inventory and the Eysenck Personality Questionnaire. *British Journal of Social Psychology*, 20(4):279–284
12. Lessing, E. E., Williams, V., and Revelle, W. (1981). Parallel forms of the IJR Behavior Checklist for parents, teachers, and clinicians. *Journal of Consulting and Clinical Psychology*, 49(1):34 – 50
11. Humphreys, M., Revelle, W., Simon, L., and Gilliland, K. (1980). Individual differences in diurnal rhythms and multiple activation states: A reply to M.W. Eysenck and Folkard. *Journal of Experimental Psychology: General*, 109(1):42–48

10. Revelle, W., Humphreys, M. S., Simon, L., and Gilliland, K. (1980). Interactive effect of personality, time of day, and caffeine: A test of the arousal model. *Journal of Experimental Psychology General*, 109(1):1–31
9. Craig, M., Humphreys, M., Rocklin, T., and Revelle, W. (1979). Impulsivity, neuroticism, and caffeine: Do they have additive effects on arousal?. *Journal of Research in Personality*, 13(4):404–419
8. Revelle, W. and Rocklin, T. (1979). Very Simple Structure - alternative procedure for estimating the optimal number of interpretable factors. *Multivariate Behavioral Research*, 14(4):403–414
7. Revelle, W. (1979). Hierarchical cluster-analysis and the internal structure of tests. *Multivariate Behavioral Research*, 14(1):57–74
6. Hanback, J. and Revelle, W. (1978). Arousal and perceptual sensitivity in hypochondriacs. *Journal of Abnormal Psychology*, 87(5):523–530
5. Revelle, W. (1978). ICLUST: A cluster analytic approach to exploratory and confirmatory scale construction. *Behavior Research Methods and Instrumentation*, 10(5):739–742
4. Revelle, W., Amaral, P., and Turriff, S. (1976). Introversion-extraversion, time stress, and caffeine: effect on verbal performance. *Science*, 192:149–150
3. Revelle, W. and Michaels, E. J. (1976). Theory of achievement-motivation revisited - implications of inertial tendencies. *Psychological Review*, 83(5):394–404
2. Gray, D. B. and Revelle, W. (1974). A multidimensional religious attitude inventory related to multiple measures of race. *The Journal of Social Psychology*, 92(1):153 – 154
1. Gray, D. B. and Revelle, W. (1972). A cluster analytic critique of the Multifactor Racial Attitude Inventory. *The Psychological Record*, 22(1):103 – 112

## Books

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Although in preparation for seven years and still not finished, my draft chapters on psychometric theory are available online at the personality-project. <http://www.personality-project.org/r/book/>

Revelle, W. (in prep). *An introduction to psychometric theory with applications in R*. Springer

## Chapters

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40. Brown, A. D. and Revelle, W. (2020). Modeling the dynamics of action. In Wood, D., editor, *Experts meeting on Measuring and Modeling Persons and Situations*. Elsevier
39. Revelle, W., Elleman, L. G., and Hall, A. (2020c). Statistical analyses and computer programming in personality. In Corr, P. J., editor, *Cambridge University Press Handbook of Personality*. Cambridge University Press
38. Revelle, W. and Wilt, J. A. (2019b). The dynamics of personality (in press). In Rauthman, J., Funder, D., and Sherman, R. A., editors, *The Handbook of Personality Dynamics and Processes*, chapter 1. Elsevier
37. Revelle, W. (2019 (in press)). Teaching research methods using simulations. In Rodgers, J. L., editor, *Teaching Statistics and Quantitative Methods into the 21st Century*, chapter 14. Taylor & Francis
36. Revelle, W. and Condon, D. M. (2018b). Reliability. In Irwing, P., Booth, T., and Hughes, D. J., editors, *The Wiley Handbook of Psychometric Testing: A Multidisciplinary Reference on Survey, Scale and Test Development*. John Wiley & Sons, London
35. Wilt, J. and Revelle, W. (2017a). A personality perspective on situations. In Rauthmann, J. F., Sherman, R., and Funder, D. C., editors, *Oxford Handbook of Psychological Situations*. Oxford University Press
34. Revelle, W., Condon, D. M., Wilt, J., French, J. A., Brown, A., and Elleman, L. G. (2016). Web and phone based data collection using planned missing designs. In Fielding, N. G., Lee, R. M., and Blank, G., editors, *Sage Handbook of Online Research Methods*, chapter 37, pages 578–595. Sage Publications, Inc., 2nd edition
33. Wilt, J. and Revelle, W. (2016). Extraversion. In Widiger, T., editor, *The Oxford Handbook of the Five Factor Model*. Oxford University Press, New York, N.Y. DOI: 10.1093/oxfordhb/9780199352487.013.15

32. Revelle, W. (2015e). Raymond Cattell. In Cautin, R. L. and Lilienfeld, S. O., editors, *The Encyclopedia of Clinical Psychology*. John Wiley & Sons, Inc
31. Revelle, W. (2015c). Hans J. Eysenck. In Cautin, R. L. and Lilienfeld, S. O., editors, *The Encyclopedia of Clinical Psychology*. John Wiley & Sons, Inc
30. Revelle, W. (2015b). Francis Galton. In Cautin, R. L. and Lilienfeld, S. O., editors, *The Encyclopedia of Clinical Psychology*. John Wiley & Sons, Inc
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28. Revelle, W. (2012). Integrating personality, cognition and emotion: Putting the dots together? In Eysenck, M. W., Fajkowska, M., and Maruszewski, T., editors, *Personality, cognition and emotion. Warsaw Lectures in Personality and Social Psychology*, chapter 9, pages 157–177. Eliot Werner Publications, New York
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1. Newcomb, T. M., Brown, D. R., Kulik, J. A., D. J. Reimer, D., and Revelle, W. (1970). Self selection and change. In Gaff, J., editor, *The Cluster College*. Jossey-Bass, San Francisco

## Computer programs and documentation

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The *psych* package, accompanying documentation and vignettes are available for download from the Comprehensive R Archive Network (CRAN) at <https://CRAN.R-project.org/package=psych>. *psych* is a general toolbox for psychometric and personality research. The *psych* package is actively being used around the world and more than 150 other R packages either suggest, import, or depend upon it. It is downloaded from the R studio cloud server around 50,000 times per week (with at least  $6.2 * 10^6$  total downloads) and seems to be among the top .5% of the > 17,000 R packages available at CRAN or GitHub. Unfortunately, it is a never finished product and new releases are issued at least semi-annually. The accompanying vignettes are roughly 50-80 pages each, and the users manual is about 400 pages long.

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  15. Revelle, W. (2016c). *psych: Procedures for Personality and Psychological Research*. Northwestern University, Evanston, <http://cran.r-project.org/web/packages/psych/>. R package version 1.6.8
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  13. Revelle, W. (2016) Using *psych* as a front end for *sem* (Vignette accompanying the *psych* package) [https://cran.r-project.org/web/packages/psych/vignettes/psych\\_for\\_sem.pdf](https://cran.r-project.org/web/packages/psych/vignettes/psych_for_sem.pdf)
  12. Revelle, W. (2014). *psych: Procedures for Personality and Psychological Research*. Northwestern University, Evanston, <http://cran.r-project.org/web/packages/psych/>. R package version 1.4.8
  11. Revelle, W. (2014) Overview of the *psych* package (Vignette accompanying the *psych* package). <http://personality-project.org/r/book/overview.pdf>
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  8. Revelle, W. (2011) Using *psych* as a front end for *sem* (Vignette accompanying the *psych* package). [http://personality-project.org/r/book/psych\\_for\\_sem.pdf](http://personality-project.org/r/book/psych_for_sem.pdf)

7. Revelle, W. (2010). *psych: Procedures for Personality and Psychological Research*. Northwestern University, Evanston, 1.0-92 edition. R package version 1.0-92
6. Revelle, W. (2008) Using R for psychological research: A simple guide to an elegant package. (see <http://personality-project.org/r>)
5. Revelle, W. (1999) VSS-Alpha-ICLUST: Mac based psychometrics program. Northwestern University, 1996-1999. (See <http://pmc.psych.northwestern.edu/revelle/programs.html>)
4. Revelle, W. (1990) ANATEST: Mac based geometric analogies program. Northwestern University, 1985-1990.
3. Revelle, W. (1980) VSIMPL: (Very Simple Structure) a program to estimate the optimal number of interpretable factors. Northwestern University Department of Psychology, 1980.
2. Revelle, W. (1977) ICLUST: A program for analyzing the internal structure of tests. *Northwestern University Computer Center memo 432*, 1977.
1. Revelle, W. (1972) CLUST, ALPHA, LOADING, ORDER, PLOT, CONTENT and T-SCORE. A package of programs for cluster analysis and scale construction. *Center for Research and Teaching*, University of Michigan, Ann Arbor, Michigan, 1972.

## Website

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The Personality Project <http://personality-project.org> is a collection of essays about personality theory, measurement, and statistical methodology. Part of it is used to collect data using Synthetic Aperture Personality Assessment: <http://test.personality-project.org>. (See [Revelle et al. \(2010b, 2011b, 2016, 2020b\)](#) for details of this technique and [Evans and Revelle \(2008\)](#); [Condon and Revelle \(2014, 2015c\)](#); [Revelle et al. \(2020a\)](#) for examples of its application.)

The SAPA Project <https://sapa-project.org> is part of the Personality Project and is used for my lab's data collection. It is an example of our Massively Missing Completely at Random procedure for data collection.

## Book Reviews

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9. Strelau, J., Farley, F.H., and Gale, A. The Biological Bases of Personality and Behavior: Vol 1: Theories, measurement techniques, and development: Vol 2: Psychophysiology, performance, and application. Hemisphere: *Contemporary Psychology*, 1989.
8. Lowen, W. Dichotomies of the mind: a systems science model of the mind and personality. *Contemporary Psychology*, 1984, 29, 73-74.
7. Lynn, R. Dimensions of Personality: Essays in honour of H.J. Eysenck. *Personality and Individual Differences*, 1983, 4, 573-574.
6. Toates, F.M. & Halliday, T.R. Analysis of Motivational Processes. *Contemporary Psychology*, 1981, 27, 263-264.
5. Weiner, B. Human Motivation. *Contemporary Psychology*, 1980, 25, 972-973, (with T. Rocklin).
4. Mackie, R.R. Vigilance. *American Journal of Psychology*, 1978, 91, 550-552.
3. Buss, A. and Plomin, R. A temperament theory of personality development. *American Journal of Psychology*, 1976, 89, 391-392.
2. Everitt, B. Cluster Analysis; Hartigan, J.A. Clustering Algorithms. *American Journal of Psychology*, 1976, 89, 350-351.

1. Atkinson, J.W. and Raynor, J.O. Motivation and Achievement. *American Journal of Psychology*, 1975, 88, 140-148.

## Workshops

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For the past several years, I have been giving workshops (usually partly sponsored by the Society of Multivariate Experimental Psychology) on psychometric theory and its applications using the R computer language. These are meant to help psychological researchers in general and personality researchers in particular to learn how to use R in their teaching and research.

12. Revelle, W. , Condon, D. and Weston, S. (2018) An introduction to R. Presented at the Association of Psychological Science. San Francisco, Ca. (May 24, 2018)
11. Revelle, W. , Condon, D. and Weston, S. (2017) An introduction to R. Presented at the Association of Psychological Science. Boston, Ma. (May 25, 2017)
10. Revelle, W., Fitzgerald, J. and Williams, M.W. (2017) An introduction to R. Presented at the American Psychological Association, Washington, D.C., (August 6, 2017).
9. Revelle, W. , Condon, D. and Weston, S. (2016) An introduction to R. Presented at the Association of Psychological Science. New York, New York (May 26, 2016)
8. Revelle, W. , Condon, D. and Weston, S. (2015) An introduction to R Presented at the Association of Psychological Science. New York, New York (May 24, 2015)
7. Revelle, W. and Perugini, M. (2014) Organizers; EAPP-ISSID-SMEP Summer School - Using R for personality research. Bertinoro, Italy. August 23-28th.
6. Revelle, W. (2014) An introduction to R. Presented at the Association of Psychological Science. San Francisco, California. (May 22, 2014)
5. Revelle, W. (2014) An Introduction to Psychometric Theory with Applications in R: A short course. Presented at the Universidade São Francisco, Campinas, Brazil. February 10-15, 2014.
4. Revelle, W. (2013) An introduction to R. Presented at the Association of Psychological Science. Washington, D.C. (May 23, 2013)

3. Revelle, W. (2013) An introduction of R in Personality Research: The First World Conference of Personality, Stellenbosch, South Africa, March 19, 2013.
2. Revelle, W. (2012) An introduction to R. Presented at the Association of Psychological Science, Chicago, Illinois, May 23.
1. Revelle, W. (2011) An introduction to R. Presented at the 2nd Biennial meeting of the Association of Research in Personality, Riverside, California, June 16, 2011.

## Papers presented at conferences

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101. Revelle, W. (2020b). Science by analogy: PWAS or Porsome Wide Association Studies. Invited presentation to the Department of Psychology, University of California, Berkeley
100. Revelle, W. and Condon, D. (2019a). Structure of personality profiles using PWAS. Florence, Italy. International Society for the Study of Individual Differences
99. Dworak, E. M., Revelle, W., and Condon, D. M. (2019). Looking for a Flynn effect: examining shifts in cognitive ability within the SAPA project. Minneapolis, MN. International Society for Intelligence Research
98. Revelle, W. and Brown, A. (2019). Modeling the dynamics of action. In Wood, D., editor, *Experts meeting on Measuring and Modeling Persons and Situations*. Army Research Institute
97. Revelle, W. (2019). Personality research: an open and shared science. Invited presentation to the Department of Psychology, University of Zurich
96. Revelle, W., Condon, D. M., and Heintz, S. (2018). Assessing personality with massively missing completely at random data: An information theoretic approach. In *Experts meeting on personality measurement*, Edinburgh, September 6-8, 2018
95. Revelle, W. and Condon, D. M. (2018c). Using SAPA to study the structure of 6600 personality and ability items. In *Part of symposium: Measuring personality: What's new and how does it help personality psychology*, Zadar, Croatia. European Conference on Personality
94. Revelle, W. and Condon, D. M. (2018a). Alternative measures of reliability: From  $\alpha$  to  $\omega$ . In *Part of a symposium: What Should We Do about Alpha II: Alternatives to Alpha*, Chicago. Society of Industrial and Organizational Psychology
93. Revelle, W. (2018). Formal models for personality dynamics. In *Part of a symposium: Methodologies for Studying Personality Dynamics and Processes*, Atlanta, Georgia. Association of Research in Personality pre-conference at Society for Personality and Social Psychology

92. Revelle, W. and Wilt, J. A. (2017). The dynamics of affect: the example of anxiety. In *The biennial meeting of the International Society for the Study of Individual Differences*, Warsaw
91. Revelle, W. and Condon, D. M. (2017b). Using MMCAR to explore the structure of personality and ability. In *Annual Meeting of the International Psychometric Society*, Zurich
90. Revelle, W. (2017d). Teaching research methods using simulations. In *a workshop on Teaching Statistics and Quantitative Methods into the 21st Century Sponsored by Division 5*, Washington, D.C. American Psychological Association
89. Zola, A., Condon, D. M., and Revelle, W. (2017). The convergence of observer ratings and self reports from SAPA. In *The biennial meeting of the Association of Research in Personality*, Sacramento
88. Revelle, W. (2017b). psych: a general purpose toolkit for personality and psychological research. San Antonio, Texas. Southwestern Psychological Association
87. Revelle, W. (2017a). Personality research: an open and shared science. In *Keynote address to the South Western Psychological Association*
86. Revelle, W. (2017e). Teaching research methods using simulations. In *a workshop on Teaching Statistics and Quantitative Methods into the 21st Century*. Midwinter Conference of Division 5, American Psychological Association
85. Wilt, J. A. and Revelle, W. (2017b). Evidence of nuanced relations between affective, behavioral, cognitive, and desire (abcd) components of the big-five with dynamic affective processes. In *The annual meeting of the Society of Personality and Social Psychology January 20*.
84. Revelle, W. and Condon, D. M. (2016b). Personality, ability and interests: Real world outcomes. In *Part of symposium: Broadening the scope of personality research: the place of personality, ability and interests in determining real world outcomes.*, Timisoara, Romania. European Conference on Personality
83. Revelle, W. and Condon, D. M. (2016a). Embrace your missingness. In *Part of symposium: approaching complex research designs from the perspective of missing data.*, Chicago, Il. Association for Psychological Science

82. Revelle, W. (2016b). Personality at three levels of analysis. In *Keynote Address to the 2nd World Conference on Personality (April)*, Buzios, Brazil
81. Revelle, W. (2015d). Personality research: an open and shared science. Novi Sad, Serbia. Current Trends in Psychology Conference (October)
80. Revelle, W. and Condon, D. M. (2015a). Ability, temperament, and interests: their joint predictive power for job choice. Albuquerque, New Mexico. International Society for the Study of Intelligence (September)
79. Revelle, W. (2015, July) Synthetic Aperture Personality Assessment: An old technique applied with modern technology. (Presented as part of a symposium Studying Individual Differences Using the Web: A Report from the SAPA Project. Organized by William Revelle.) International Society for the Study of Individual Differences. London, Ontario.
78. Revelle, W. (2015, February). psych: a general purpose toolkit for personality and psychological research. (Part of a symposium on using R in personality research. Organized by Steven D. Short, Presented at the *Society of Personality and Social Psychology* Long Beach, California.
77. Condon, D. M. & Revelle, W. (2014, July). The many little items of "Big Five" measures: Hierarchy, complexity and predictive utility. Paper session at the 17th *European Conference on Personality*, Lausanne, Switzerland.
76. Condon, D. M. & Revelle, W. (2014, July). Cross-Domain Assessment of Individual Differences: The Unique Benefits of Public-Domain Measures. Symposium at the 17th *European Conference on Personality*, Lausanne, Switzerland.
75. Revelle, W. & Condon, D. M. (2014, July). Personality and ability: Assessing ability using the international cognitive ability resource (ICAR) Symposium at the 17th *European Conference on Personality*, Lausanne, Switzerland.
74. Elleman, L., Condon, D. M., French, J. A., & Revelle, W., (2014, February). Personality Change Beyond the Big Five: Personality Aspects, Vocational Interests and Cognitive Ability. Poster session pre-

sented at the 15th annual meeting of the *Society for Personality and Social Psychology*, Austin, TX.

73. William Revelle and Ashley Brown (2013) Standard errors for SAPA correlations. Presented at the Society of Multivariate Experimental Psychology, St. Petersburg, Florida. (October, 2013)
72. William Revelle (2013) Expanding Eysenck's toolbox: Beyond Correlational and Experimental Research. The Eysenck Prize Lecture, International Society for the Study of Individual Differences, Barcelona, July, 2013.
71. William Revelle and David Condon (2013) Personality at three levels of abstraction. Presented as part of a symposium "Toward Integrative Theories of Personality" Fajkowska, M. & DeYoung, C.G. organizers. International Society for the Study of Individual Differences, Barcelona, July, 2013.
70. Condon, D. M. & Revelle, W. (2013, July). The International Cognitive Ability Resource: The case for its broader use and collaborative development. Symposia at the biennial meeting of the International Society for the Study of Individual Differences, Barcelona, Spain.
69. Condon, D. M., & Revelle, W., (2013, June). Synthetic Aperture Personality Assessment: Within and across the dimensions of personality. Poster session presented at the biennial meeting of the Association for Research in Personality, Charlotte, NC.
68. Condon, D. M., French, J. A., Brown, A., & Revelle, W., (2013, June). Development and Validation of the International Cognitive Ability Resource. Poster session presented at the biennial meeting of the Association for Research in Personality, Charlotte, NC.
67. French, J. A., Condon, D. M., & Revelle, W., (2013, June). Predicting Scientific Attitudes Using Traits, Abilities and Interests. Poster session presented at the biennial meeting of the Association for Research in Personality, Charlotte, NC.
66. Brown, A., Condon, D. M., & Revelle, W., (2013, June). What Do We Know When We Know an IQ Score? Ability-by-Personality Interactions Predict Intelligence Test Performance and Item Response Styles. Poster session presented at the biennial meeting of the Association for Research in Personality, Charlotte, NC.

65. French, J. A., Condon, D. M., & Revelle, W., (2013, May). The Structure of Scientific Attitudes: Exploring the SAIH using Traits, Abilities and Interests. Poster session presented at the 25th annual convention of the Association for Psychological Sciences. Washington, DC.
64. David M. Condon and William Revelle (2012) The International Cognitive Ability Resources: Development and initial validation of a public-domain measure. Presented at the 13 annual meeting of the International Society for Intelligence Research, San Antonio, Texas, December, 2012. (presented by DMC).
63. William Revelle and David Condon (2012) Multilevel analysis of personality: Personality of college majors. Presented at the annual meeting of the Society of Multivariate Experimental Psychology. October, Vancouver, B.C.
62. William Revelle and David Condon (2012) Personality structure beyond the Big 5: Expanding the boundaries of personality research. Invited talk presented at the European Association of Personality Psychology "Experts Meeting". September, 2012, Dubrovnik, Croatia.
61. William Revelle and Joshua Wilt (2012) On when a factor is a general factor. Invited talk presented at the European Association of Personality Psychology "Experts Meeting". September, 2012, Dubrovnik, Croatia.
60. William Revelle (2012) An introduction to R: A short course. Presented at the Association for Psychological Science annual meeting. Chicago. May, 2012.
59. William Revelle and David Condon (2012) Temperament, ability, and interests predict important real world choices. Part of a Symposium: Motivation as a basic personality process. Organized by Luke Smillie and Joshua Wilt. Annual meeting of the Society for the Study of Motivation, Chicago, May, 2012.
58. William Revelle, Joshua Wilt and David Condon (2011) Telemetrics: Measuring personality at a distance. A symposium at the Biennial Meeting of the International Society for the Study of Individual Differences, London. July, 2011.

57. William Revelle (2011) Individual differences beyond temperament: expanding the boundaries of personality. Invited keynote address presented to the British Society for the Psychology of Individual Differences. London, July, 2011.
56. William Revelle (2011) An introduction to R: A short course. Presented at the Association for Research in Personality biennial meeting. Riverside. June, 2011.
55. William Revelle (2011) An introduction to R: A short course. Presented at the Association for Psychological Science annual meeting. Washington, D.C. May, 2011.
54. William Revelle, David Condon and Joshua Wilt (2010) Personality is more than you think: Abilities, Temperament, Interests, and Character. Presented as part of a conference: Beyond Correlation in the Study of Personality: Associations, Investments and Interventions. University of Chicago. December, 2010
53. Revelle, W (2010) An introduction to R. A short course (part 2). Presented at the annual meeting of the *Society of Multivariate Experimental Psychology*, Atlanta, Georgia October, 2010
52. Revelle, W, and Wilt, J. (2010) A methodological critique of claims for a general factor of personality. Presented as part of a symposium: Mapping the Personality Sphere, Niels Waller (organizer), European Conference on Personality, Brno, Czech Republic, July, 2010
51. Fua, K., Revelle, W., and Ortony, A. (2010). Modeling personality and individual differences: the approach-avoid-conflict triad. In *CogSci 2010: The Annual meeting of the Cognitive Science Society, Portland, Or.*, pages 25–30
50. Fua, K., Horswill, I., Ortony, A., and Revelle, W. (2009). Reinforcement sensitivity theory and cognitive architectures. In *Biologically Informed Cognitive Architectures (BICA-09)*, Washington, D.C
49. Revelle, W (2009) An introduction to R. A short course. Presented at the annual meeting of the *Society of Multivariate Experimental Psychology*, Salishan, Oregon, October, 2009
48. Revelle, W and Wilt, J. (2009) Is there a general factor of personality? Probably not. Presented at the annual meeting of the *Society*

- of Multivariate Experimental Psychology*, Salishan, Oregon, October, 2009.
47. Wilt, J., Funkhouser, K. and Revelle, W (2009) Individual Differences in Affective Experience are Related to Personality States and Perceptions of Situations. Presented at the biennial conference of the *International Society for the Study of Individual Differences*, Evanston, Illinois, July 2009.
  46. Revelle, W. (2008) Commentary/discussion on the talks by Arne Ohman, Nico Frijda, Edward Necka, and then “take home message and summary of the conference”. Four talks given as part of the *Second Biennial Symposium on Personality and Social Psychology: Personality, Cognition and Emotion*. Warsaw, September 18-21, 2008.
  45. Revelle, W. (2008) Measuring the situation. Paper presented as part of a symposium on the importance of the situation. (David Funder, organizer). *European Conference on Personality*, July, 2009. Tartu, Estonia.
  44. Revelle, W. (2008) An introduction to psychometrics with applications in R. A short course (two day) presented at the *European Conference on Personality*, Tartu, Estonia. July, 2008.
  43. Revelle, W. (2007) Personality and individual differences: the home for psychological generalists. Presidential address, *International Society for the Study of Individual Differences*, Giessen, Germany, July 2007.
  42. Revelle, W (2006) Synthetic Aperture Personality Assessment: the first 60,000 subjects. Presented at the annual meeting of the *Society of Multivariate Experimental Psychology*, Lawrence, Kansas. October 19-21.
  41. Revelle, W. (2006) Individual differences in Cognition: the Personality-Cognition link. Presented at a symposium “Individual differences in cognition” A symposium organized by Blazej Szymura and Edward Necka Cracow, Poland, September 15-17, 2006
  40. Revelle, W. (2006) The ABCDs of Personality and the Problem of Categorization. Part of a Symposium: Categorization, Decision-Making and Personality (Luke Smillie & William Revelle, organizers) *European Conference of Personality*, Athens, 2006.

39. Revelle, W. (2006) Synthetic Aperture Personality Assessment. Invited paper at the *Midwestern Psychological Association* Annual Meeting, Chicago, May, 2006.
38. Revelle, W. (2005) R: Statistics for all of us. R An international statistical collaboratory. Part of the symposium on Multivariate Statistical Methods in Individual Differences Research *International Society for the Study of Individual Differences Biennial meeting*, Adelaide, July , 2005
37. Revelle, W. and Laun, G. (2004) Synthetic Aperture Personality Assessment. *Society for Multivariate Experimental* , Fort Meyers, Florida, October, 2004.
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