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Education

Ph.D. (2002) Arizona State University, Psychology; Dissertation: "Social influence and group dynamics: Self-organization in and among groups."

M.A. (1996) San Francisco State University, Psychology; Master's Thesis: "Stereotype-based disidentification and identification to roles within the self."

B.A. (1992) University of California at Santa Cruz, Psychology.

Awards

Irwin Altman Outstanding Psychology Faculty Award (2013)

University Early Career Teaching Award (2007)

College of Social and Behavioral Sciences Superior Teaching Award (2007)

Research (Italicized: Utah Student/post doc first author)

Published Papers

1999

Cialdini, R. B.; Wosinska, W.; Barrett, D. W.; **Butner, J.** & Gornik-Durose, M. (1999), 'Compliance with a request in two cultures: The differential influence of social proof and commitment/consistency on collectivists and individualists', *Personality and Social Psychology Bulletin* **25**(10), 1242--1253.

2000

Kenrick, D. T.; Li, N. & **Butner, J. E.** (2000), 'Dynamical systems and mating decision rules', *Behavioral and Brain Sciences* **23**(04), 607--608.

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Cialdini, R. B.; Wosinska, W.; Barrett, D. W.; **Butner, J.** & Gornik-Durose, M. (2001), 'The differential impact of two social influence principles on individualists and collectivists in Poland and the United States', *The practice of social influence in multiple cultures*, 33--50.

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2003

Kenrick, D. T.; Li, N. P. & **Butner, J.** (2003), 'Dynamical evolutionary psychology: individual decision rules and emergent social norms.', *Psychological Review* **110**(1), 3.

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Barrett, D. W.; Wosinska, W.; **Butner, J.**; Petrova, P.; Gornik-Durose, M. & Cialdini, R. B. (2004), 'Individual differences in the motivation to comply across cultures: The impact of social obligation', *Personality and individual differences* **37**(1), 19--31.

2005

Butner, J.; Amazeen, P. G. & Mulvey, G. M. (2005), 'Multilevel modeling of two cyclical processes: extending differential structural equation modeling to nonlinear coupled systems.', *Psychological methods* **10**(2), 159.

Maner, J. K.; Kenrick, D. T.; Becker, D. V.; Robertson, T. E.; Hofer, B.; Neuberg, S. L.; Delton, A. W.; **Butner, J.** & Schaller, M. (2005), 'Functional projection: how fundamental social motives can bias interpersonal perception.', *Journal of personality and social psychology* **88**(1), 63.

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Aiken, L. S.; **Butner, J.**; Lockhart, C. A.; Volk-Craft, B. E.; Hamilton, G. & Williams, F. G. (2006), 'Outcome evaluation of a randomized trial of the PhoenixCare intervention: program of case management and coordinated care for the seriously chronically ill', *Journal of palliative medicine* **9**(1), 111--126.

Kenrick, D. T.; Li, N. P.; **Butner, J.**; Van Lange, P. A. M. & Kruglanski, A. (2006), 'Dynamical evolutionary psychology: How social norms emerge from individual decisions rules', *Bridging social psychology: The benefits of transdisciplinary approaches*, 285--292.

2007

Baron, K. G.; Smith, T. W.; **Butner, J.**; Nealey-Moore, J.; Hawkins, M. W. & Uchino, B. N. (2007), 'Hostility, anger, and marital adjustment: Concurrent and prospective associations with psychosocial vulnerability', *Journal of behavioral medicine* **30**(1), 1--10.

Butner, J.; Diamond, L. M. & Hicks, A. M. (2007), 'Attachment style and two forms of affect coregulation between romantic partners', *Personal Relationships* **14**(3), 431--455.

Ko, K. J.; Berg, C. A.; **Butner, J.**; Uchino, B. N. & Smith, T. W. (2007), 'Profiles of successful aging in middle-aged and older adult married couples.', *Psychology and aging* **22**(4), 705.

Moore, D. R.; Florsheim, P. & **Butner, J.** (2007), 'Interpersonal behavior, psychopathology, and relationship outcomes among adolescent mothers and their partners', *Journal of clinical child and adolescent psychology* **36**(4), 541--556.

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Berg, C. A.; Butler, J. M.; Osborn, P.; King, G.; Palmer, D. L.; **Butner, J.**; Murray, M.; Lindsay, R.; Donaldson, D.; Foster, C. & others (2008), 'Role of parental monitoring in understanding the benefits of parental acceptance on adolescent adherence and metabolic control of type 1 diabetes', *Diabetes Care* **31**(4), 678--683.

Berg, C. A.; Wiebe, D. J.; **Butner, J.**; Bloor, L.; Bradstreet, C.; Upchurch, R.; Hayes, J.; Stephenson, R.; Nail, L. & Patton, G. (2008), 'Collaborative coping and daily mood in couples dealing with prostate cancer.', *Psychology and Aging* **23**(3), 505.

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Malloy, T. E.; **Butner, J.** & Jensen, G. C. (2008), 'The emergence of dynamic form through phase relations in dynamical systems.', *Nonlinear dynamics, psychology, and life sciences* **12**(4), 371--395.

2009

Berg, C. A.; Skinner, M.; Ko, K.; Butler, J. M.; Palmer, D. L.; **Butner, J.** & Wiebe, D. J. (2009), 'The fit between stress appraisal and dyadic coping in understanding perceived coping effectiveness for adolescents with type 1 diabetes.', *Journal of Family Psychology* **23**(4), 521.

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Fortenberry, K. T.; Butler, J. M.; **Butner, J.**; Berg, C. A.; Upchurch, R. & Wiebe, D. J. (2009), 'Perceived diabetes task competence mediates the relationship of both negative and positive affect with blood glucose in adolescents with type 1 diabetes', *Annals of Behavioral Medicine* **37**(1), 1--9.

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2010

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Finan, P. H.; Hessler, E. E.; Amazeen, P. G.; **Butner, J.**; Zautra, A. J. & Tennen, H. (2010), 'Nonlinear oscillations in pain prediction accuracy: A dynamical systems approach to understanding daily pain prediction', *Nonlinear dynamics, psychology, and life sciences* **14**(1), 27.

Malloy, T. E.; **Butner, J.**; Dickerson, C. & Cooper, J. M. (2010), 'Fearless-evolution on Boolean landscapes: Boolean phase portraits reveal a new navigation strategy based on fearful symmetry', *Emergence: Complexity and Organization* **12**(3), 65.

Suchy, Y.; Williams, P. G.; Kraybill, M. L.; Franchow, E. & **Butner, J.** (2010), 'Instrumental activities of daily living among community-dwelling older adults: Personality associations with self-report, performance, and awareness of functional difficulties', *The Journals of Gerontology Series B: Psychological Sciences and Social Sciences* **65**(5), 542--550.

Wiebe, D. J.; Croom, A.; Fortenberry, K. T.; **Butner, J.**; Butler, J.; Swinyard, M. T.; Lindsay, R.; Donaldson, D.; Foster, C.; Murray, M. & others (2010), 'Parental involvement buffers associations between pump duration and metabolic control among adolescents with type 1 diabetes', *Journal of pediatric psychology*, jsq012.

2011

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Sansone, C.; Fraughton, T.; Zachary, J. L.; **Butner, J.** & Heiner, C. (2011), 'Self-regulation of motivation when learning online: the importance of who, why and how', *Educational Technology Research and Development* **59**(2), 199--212.

Smith, T. W.; Uchino, B. N.; Florsheim, P.; Berg, C. A.; **Butner, J.**; Hawkins, M.; Henry, N. J. M.; Beveridge, R. M.; Pearce, G.; Hopkins, P. N. & others (2011), 'Affiliation and control during marital disagreement, history of divorce, and asymptomatic coronary artery calcification in older couples', *Psychosomatic medicine* **73**(4), 350.

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2014

Berg, C. A.; Wiebe, D. J.; Suchy, Y.; Hughes, A. E.; Anderson, J. H.; Godbey, E. I.; **Butner, J.**; Tucker, C.; Franchow, E. I.; Pihlaskari, A. K. & others (2014), 'Individual differences and day-to-day fluctuations in perceived self-regulation associated with daily adherence in late adolescents with type 1 diabetes', *Journal of pediatric psychology* **39**(9), 1038--1048.

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Butner, J. E.; Berg, C. A.; Baucom, B. R. & Wiebe, D. J. (2014), 'Modeling coordination in multiple simultaneous latent change scores', *Multivariate behavioral research* **49**(6), 554--570.

King, P. S.; Berg, C. A.; **Butner, J.**; Butler, J. M. & Wiebe, D. J. (2014), 'Longitudinal trajectories of parental involvement in Type 1 diabetes and adolescents adherence.', *Health Psychology* **33**(5), 424.

Wiebe, D. J.; Chow, C. M.; Palmer, D. L.; **Butner, J.**; Butler, J. M.; Osborn, P. & Berg, C. A. (2014), 'Developmental processes associated with longitudinal declines in parental responsibility and adherence to type 1 diabetes management across adolescence', *Journal of Pediatric Psychology* **39**(5), 532--541.

Wilson, S. J.; Barrineau, M. J.; **Butner, J.** & Berg, C. A. (2014), 'Shared possible selves, other-focus, and perceived wellness of couples with prostate cancer', *Journal of Family Psychology* **28**, 684--691.

2015

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Henry, N. J. M.; Smith, T. W.; **Butner, J.**; Berg, C. A.; Sewell, K. K. & Uchino, B. N. (2015), 'Marital quality, depressive symptoms, and the metabolic syndrome: a couples structural model', *Journal of behavioral medicine* **38**(3), 497--506.

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Berg, C. A.; Queen, T.; **Butner, J. E.**; Turner, S. L.; Lansing, A. H.; Main, A.; Anderson, J. H.; Thoma, B. C.; Winnick, J. B. & Wiebe, D. J. (2016), 'Adolescent Disclosure to Parents and Daily Management of Type 1 Diabetes', *Journal of pediatric psychology*, jsw056.

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- Lansing, A. H.; Berg, C. A.; **Butner, J.** & Wiebe, D. J. (2016), 'Self-control, daily negative affect, and blood glucose control in adolescents with Type 1 diabetes.', *Health Psychology* **35**(7), 643.
- Queen, T. L.; **Butner, J.**; Wiebe, D. J. & Berg, C. A. (2016), 'A micro-developmental view of parental well-being in families coping with chronic illness.', *Journal of Family Psychology* **30**(7), 843.
- Rau, H. K.; Suchy, Y.; **Butner, J. E.** & Williams, P. G. (2016), 'Latent profiles of executive functioning in healthy young adults: evidence of individual differences in hemispheric asymmetry', *Psychological research* **80**(6), 997--1019.
- Suchy, Y.; Turner, S. L.; Queen, T. L.; Durracio, K.; Wiebe, D. J.; **Butner, J.**; Franchow, E. I.; White, P. C.; Murray, M. A.; Swinyard, M. & others (2016), 'The relation of questionnaire and performance-based measures of executive functioning with Type 1 diabetes outcomes among late adolescents.', *Health Psychology* **35**(7), 661.
- Turner, S. L.; Queen, T. L.; **Butner, J.**; Wiebe, D. & Berg, C. A. (2016), 'Variations in daily sleep quality and type 1 diabetes management in late adolescents', *Journal of pediatric psychology* **41**(6), 661--669.
- Utz, R. L.; Berg, C. A. & **Butner, J.** (2016), 'Its A Family Affair: Reflections About Aging and Health Within a Family Context', *The Gerontologist*, gnw081.
- 2017
- Suchy, Y.; Queen, T. L.; Huntbach, B.; Wiebe, D. J.; Turner, S. L.; **Butner, J.**; Kelly, C. S.; White, P. C.; Murray, M.; Swinyard, M. & others (2017), 'Iowa Gambling Task Performance Prospectively Predicts Changes in Glycemic Control among Adolescents with Type 1 Diabetes', *Journal of the International Neuropsychological Society*, 1--10.
- Berg, C.A., **Butner, J.**, Wiebe, D.J., Lansing, A.H., Osborn, P., King, P.S., Palmer, D.L., ... (2017). Developmental model of parent-child coordination for self-regulation across childhood and into emerging adulthood: Type 1 diabetes management as an example. *Developmental Review*.

- Berg, C. A., Queen, T., **Butner, J. E.**, Turner, S. L., Hughes Lansing, A., Main, A., ... Wiebe, D. J. (2017). Adolescent disclosure to parents and daily management of type 1 diabetes. *Journal of Pediatric Psychology, 42*(1), 75–84.
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- Queen, T. L., **Butner, J.**, Berg, C. A., & Smith, J. (2017). Activity Engagement Among Older Adult Spousal Caregivers. *The Journals of Gerontology: Series B.*
- Turner, S. L., Berg, C. A., **Butner, J. E.**, & Wiebe, D. J. (2017). Attention Problems as a Predictor of Type 1 Diabetes Adherence and Metabolic Control Across Adolescence. *Journal of Pediatric Psychology, 43*(1), 72-82.
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Winnick, J. B., Berg, C. A., Wiebe, D. J., Schaefer, B. A., Lei, P.-W., & **Butner, J. E.** (2017). Metabolic control and academic achievement over time among adolescents with type 1 diabetes. *School Psychology Quarterly*, 32(1), 105.

2018

Berg, C.A., Wiebe, D.J., Suchy, Y, Turner, S.L., **Butner, J.**, ... Murray, M (2018). Executive function predicting longitudinal change in type 1 diabetes management during the transition to emerging adulthood. *Diabetes Care*.

Tracy, E. L., Berg, C. A., Baucom, K. J., Turner, S. L., Kelly, C. S., Van Vleet, M., ... & Helgeson, V. S. (2018). Daily sleep quality and daily stressors in couples coping with type 1 diabetes. *Health Psychology*.

Bryan, C. J., **Butner, J. E.**, Sinclair, S., Bryan, A. B. O., Hesse, C. M., & Rose, A. E. (2017). Predictors of emerging suicide death among military personnel on social media networks. *Suicide and Life-Threatening Behavior*.

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- Tracy, E. L., Berg, C. A., Baucom, K. J., Turner, S. L., Kelly, C. S., Van Vleet, M., ... & Helgeson, V. S. (2019). Daily sleep quality and daily stressors in couples coping with type 1 diabetes. *Health Psychology*, 38(1), 75.

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Book Chapters/Books

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Berg, C. A.; Wiebe, D. J.; King, P. S.; **Butner, J.** & Butler, J. (2011), Coregulation of daily affect in parents and adolescents with type 1 diabetes, *in 'Gerontologist'*, pp. 524--524.

Wiebe, D.; **Butner, J.**; King, P.; Butler, J. & Berg, C. (2011), Maternal Monitoring and the Adaptiveness of Parent-Adolescent Diabetes Transactions over Time, *in 'Annals of Behavioral Medicine'*, pp. S60--S60.

Butner, J.; Gagnon, K.; Geuss, M.; Malloy, T.; Kramer, M. & Stefanucci, J. (2012), 'Form Perception through Phase Relations of Retina Ganglion Cell Firing and Extraocular Muscle Contractions', *Journal of Vision* **12**(9), 508--508.

Choi, A.; Sansone, C.; **Butner, J.** & Zachary, J. (2012), 'Examining off-task behaviors as regulatory mediators of interest and performance online.' Abstract published in *International Journal of Psychology*, 47, 791-791.'

Wiebe, D.; Chow, C.; **Butner, J.**; Palmer, D.; Story, N.; Osborn, P. & Berg, C. (2012), 'Longitudinal predictors of parental involvement and type 1 diabetes management across adolescence.' Abstract published in *Annals of Behavioral Medicine*, 43, S82-S82.'

Berg, C. A.; Wiebe, D. J.; Suchy, Y. S.; Hughes, A. E.; Franchow, E.; **Butner, J.** & Pihliskari, A. (2013), 'Perceived regulatory competencies associated with daily adherence in late adolescence.' Paper presented at the Annual meeting and Scientific Sessions of the Society of Behavioral Medicine.'

Williams, P. G.; **Butner, J.**; Rau, H. K.; Bride, D. L.; Cribbet, M.; Silver, M.; Wilson, S. & Baucom, B. (2014), A dynamical systems examination of autonomic nervous system activation in the pre-sleep period, *in 'Psychosomatic Medicine'*, pp. A124--A124.

Berg, C. A.; Suchy, Y.; Wiebe, D.; Turner, S.; Queen, T.; Winnick, J.; Anderson, J.; Hughes, A.; Durracio, K. & **Butner, J.** (2015), The Relation between Adolescents and Parents Reports of Self-Regulation Skills and Performance-based Measures in Late Adolescents with Type 1 Diabetes, *in 'Diabetes'*, pp. A367--A367.

Jostad, J.; Sibthorp, J. & **Butner, J. E.** (2015), By posters presentations using dynamical systems theory in outdoor experimental education, *in '2015 Symposium on Experiential Education Research'*, pp. 8.

Turner, S. L.; Suchy, Y.; Queen, T. L.; Duraccio, K.; Wiebe, D. J.; **Butner, J. E.**; Franchow, E. I.; White, P. C.; Murray, M. A. & Berg, C. A. (2015), Assessing Executive Function in Type 1 Diabetes: Relations to Adherence and Glycemic Control, *in 'Diabetes'*, pp. A223--A223.

Butner, J.E. & Berg, C. (2017). Dynamic systems modeling for health in a social context in 'Annals of Behavioral Medicine', 51, S12-S13.

Munion, A., **Butner, J.**, Wiebe, C., Kelly, C., Turner, S.L., & Munion, C. (2017). Self- and social regulation in emerging adults with type 1 diabetes in 'Annals of Behavioral Medicine', pp. 51, S1072-S1073.

Berg, C.A., Wiebe, D., Lee, E., Kelly, C.S., **Butner, J.**, & Mello, D. (2018). Parental involvement in type 1 diabetes across emerging adulthood: Is it beneficial and for whom? In 'Annals of Behavioral Medicine', 52, S720-S720.

Berg, C.A., Helgeson, V., Kelly, C.S., Lee, E., Van Vleet, M., **Butner, J.**, & Litchman, M.L. (2018). Benefit of support for daily diabetes management depends on shared illness appraisal in adults with type 1 diabetes. In 'Annals of Behavioral Medicine', 52, S197-S197.

Berg, C.A., Wiebe, D.J., Suchy, Y., Turner, S.L., **Butner, J.**, ... Murray, M (2018). Executive function predicting longitudinal change in type 1 diabetes management during the transition to emerging adulthood. *Diabetes Care*.

Tracy, E. L., Berg, C., Turner, S. L., de Grey, R. G. K., **Butner, J. E.**, Litchman, M. L., ... & Helgeson, V. S. (2019, March). DAILY SLEEP QUALITY AND DIABETES MANAGEMENT AMONG ADULTS WITH TYPE 1 DIABETES. In ANNALS OF BEHAVIORAL MEDICINE (Vol. 53, pp. S386-S386). JOURNALS DEPT, 2001 EVANS RD, CARY, NC 27513 USA: OXFORD UNIV PRESS INC.

Conference Presentations and Posters

Cialdini, R. W.; Barrett, W.; **Butner, J.** & J. Gornik, M. (1997), 'Individualism/collectivism and compliance resulting from commitment/consistency and social proof.' Paper presentation at the Conference on: The Practice of Social Influence in Established and Emerging Democracies, Prezogorzaly-Krakow, Poland.'

Asher, T.; **Butner, J.** & Cialdini, R. (1998), 'The influence of suspense on participant's willingness to volunteer.' Poster presentation at the Western Psychology Association, Albuquerque, New Mexico.'

Kenrick, D. T.; Li, N. & **Butner, J.** (1999), 'Evolutionary psychology and dynamical systems: Watching traits unfold in complex networks.' Paper presented at the Human Behavior and Evolution Society 1999 Conference, Salt Lake City, UT'.

Kenrick, D. T.; Becker, V.; **Butner, J.**; Li, N. P. & Maner, J. K. (2001), 'Evolutionary cognitive science: Adding what and why to how the mind works.' Paper presented at Australian conference on evolution and cognition, Australia.'

Khoo, S. T. & **Butner, J.** (2001), 'Latent Curve Modeling of a Multidimensional Construct: Simultaneous Growth of two latent factors.' Paper presented at American Education Research Association 2001 Conference, Seattle, WA.'

Butner, J. E. & Mulvey G., P. (2002), 'Growth modeling of two cyclical processes: Extending differential structural equation modeling to coupled systems.' Invited talk to the University of Utah, Masters of Statistics Open House.'

Butner, J.; Becker, V.; Maner, J.; Ackerman, J. & Kenrick, D. (2002), 'Waist to Hip Ratio and Body Fat on Attractiveness: A Dynamical Evolutionary Model of Judgment Stability.' Poster presented at HBES.'

Kenrick, D. T.; Li, N. & **Butner, J.** (2003), 'Evolutionary psychology and dynamical systems: Watching traits unfold in complex networks.' Paper presented at the Society for Personality and Social Psychology 2003 Conference, Universal City, CA.'

Butner, J. (2005), 'Coordinating cycles of emotion.' Paper presented at the Western Psychological Association annual conference, Portland, OR.'

Butner, J. (2005), 'Coordinating cycles of emotion.' Paper presented at the Social Psychology 2005 Ski Conference, Park City, UT.'

Butner, J.; Malloy, T.; Cooper, J. & Smith, T. (2007), 'The knowable unknowns, Winding and unwinding Meta-TAO under broken symmetries.' Paper presented at the society for chaos Theory in Psychology & Life Sciences as part of the symposium Knowing in a World of Broken Symmetries, Orange, CA.'

Cooper, J.; **Butner, J.**; Malloy, T. & Smith, T. (2007), 'Folding Sierpinski gaskets: The structure of Boolean derivatives in TAO and Meta-TAO.' Paper presented at the Society for chaos theory in Psychology & Life Sciences as part of the symposium Knowing in a World of Broken Symmetries, Orange, CA.'

Malloy, T.; **Butner, J.**; Cooper, J. & Smith, T. (2007), 'The puzzling powers of two: A brief introduction to epistemology and to a Boolean systems simulation methodology.' Paper presented at the Society for chaos Theory in Psychology & Life Sciences as part of the symposium Knowing in a World of Broken Symmetries, Orange, CA.'

Malloy, T.; **Butner, J.**; Cooper, J.; Smith, T. & Dickerson, C. (2007), 'Knowing begets knowing: Derivatives and meta-derivatives reveal the topology of basin landscape in Boolean XOR rings.' Paper presented at the Society for chaos Theory in Psychology & Life Sciences as part of the symposium Knowing in a World of Broken Symmetries, Orange, CA.'

Butner, J.; Story, T. N.; Berg, C. & Wiebe, D. (2009), 'Dimensionality: Towards an understanding of diabetes regulation.' Paper presented at the Western Psychological Association, Portland, OR.'

Palmer, D. L.; Osborn, P.; Berg, C. A.; Butler, J.; **Butner, J.**; Horton, D.; King, P. & Wiebe, D. J. (2009), 'Modeling parental involvement and predicting adherence in type 1 diabetes during adolescence.' Poster presented at the Midwest conference on Pediatric Psychology, University of Kansas, Kansas City, MO.'

Story, T. N.; **Butner, J.**; Berg, C. & Wiebe, D. J. (2009), 'Searching for complex patterns in blood glucose of adolescents with type 1 diabetes: A fractal approach to vigilance.' Poster presented at the Western Psychological Association, Portland, OR.'

Berg, C. A.; Wiebe, D. J. & **Butner, J.** (2010), 'Problem anticipation and daily adjustment in couples coping with prostate cancer.' In C. Hoppman & D. Gerstorf (Organizers). Symposium presented at the Gerontological Society of America Meetings, New Orleans, LA.'

Berg, C.; Wiebe, D.; King, P.; **Butner, J.** & Butler, J. (2011), 'Coregulation of daily affect in adolescents with type 1 diabetes and their parents.' In G. Luong & S. Charles (Organizers), The positive and negative side of social relationships: Influences on well-being. Symposium at the Gerontological Society of America, Boston, MA.'

Butner, J. (2012), 'Modeling oscillations through differential equations.' Workshop at Society for Chaos in the Psychological and Life Sciences, Baltimore, MD.'

Butner, J. (2012), 'Combining first and second order models.'Presentation at the Society for Chaos in the Psychological and Life Sciences, Baltimore, MD.'

Butner, J.; Gagnon, K.; Geuss, M.; Malloy, T.; Kramer, M. & & Stefanucci, J. (2012), 'Form perception through phase relations of the retina ganglion cell firing and extraocular muscle contraction.'Demo and poster at Vision Sciences Society, FL.'

Berg, C. A.; Wiebe, D. J.; King, P.; Turner, S. L.; Hughes, A. E. & & **Butner, J.** (2013), 'A multiple-informant and multiple-methods approach to adherence behaviors for understanding metabolic control in adolescents with type 1 diabetes.'Poster presented at the National Conference in Pediatric Psychology.'

Butner, J.; Wilson, S. & & Berg, C. A. (2013), 'Exploratory construction of the topology for parent-adolescent co-regulation of type 1 diabetes.'Presented at the Society for Personality and Social Psychology, Dynamical Systems Preconference, Austin, TX.'

Butner, J.; Berg, C. A.; Baucom, B. R. & & Wiebe, D. J. (2013), 'Modeling coordination in multiple simultaneous latent difference scores for four measures of diabetes regulation.'Presented at the Society for Chaos Theory, Psychology and Life Sciences, Portland, OR.'

Butner, J. & & Sansone, C. (2014), 'Self-regulating motivation and performance over time.'Presented at the Fred Rhodewalt Social Psychology Winter conference, park City, UT.'

Butner, J. E. (2014), 'There Shouldn't Be Dragons Graphing the Cup-L Project. 'Presentation at Computational Modeling of Temporal Interpersonal Emotion Systems'

Sansone, C.; Sinclair, S.; Fraughton, T. A.; **Butner, J.** & & Zachary, J. (2014), 'Distinguishing interest, engagement and achievement: An online learning approach.'In S. Hidi (chair), Current approaches to interest measurement. Structured poster session at the Annual Meeting of the American Educational Research Association, Philadelphia, PA.'

Sinclair, S.; **Butner, J.;** Zachary, J. & & Sansone, C. (2014), 'Off-task types and switching to off-task from lesson influence motivation and performance.'Presented at the Annual Meeting of the Association for Psychological Science, San Francisco, CA.'

Sinclair, S.; **Butner, J.;** Sansone, C. & & Zachary, J. (2014), 'How do students manage interest while working online through temporal patterns of off-task behavior?'Presented at the Annual Meeting of the Society for Personality and Social Psychology, Austin, TX.'

Williams, P. G.; **Butner, J.;** Rau, H. K.; Bride, D.; Cribbet, M. R.; Silver, M.; Wilson, S. & & Baucom, B. (2014), 'A dynamical systems analysis of autonomic nervous system activation in the pre-sleep period'Poster presented at the 72nd meeting of the American Psychosomatic Society, San Francisco, CA.'

Butner, J. & Baucom, B. (2015), 'Mapping Heart Rate: Topology and Topography of Physiological Co-Regulatory Stress'Invited Symposium at SESP'.

Butner, J. E. (2015), 'It is All About Coordinating the Family: Adherence as a Regulatory Phenomenon from a Dynamical Systems Perspective'Invited talk at the University of Cincinnati'.

Perry, N. S.; **Butner, J.**; Hogan, J.; Crenshaw, A.; Bourne, S.; Baucom, K. J. W. & Baucom, B. R. (2015), 'Using Vector Fields to Plot and Interpret Cross-Lagged Panel Models'Poster presented at the 49th annual convention of the Association for Behavioral and Cognitive Therapies (ABCT), Chicago, IL.'

Butner, J. E. & Baucom, B. (2016), 'Dynamical Systems Modeling. 'Five day workshop for the Consortium for Families and Health Research, University of Utah'.

Butner, J. E. (2016), 'Dynamical Systems Modeling'Half day workshop for the Society for Chaos Theory in the Psychological and Life Sciences. Salt Lake City, UT.'

Christina S. Soma, Bo Xiao, **Butner, J.E.**, P. H. B. R. B. S. N. D. A. A. & Imel, Z. E. (2016), 'Using Dynamic Systems to Model the Therapeutic Relationship'Poster at APA'.

Williams, P. G.; **Butner, J.**; Rau, H. K.; Bride, D. & Cribbet, M. R. (2016), 'Individual differences in self-regulatory capacity and autonomic nervous system activation during the pre-sleep period: A dynamical systems examination.'Symposium paper (Symposium title: The Other Third of Our Lives: A Self-Regulatory Perspective on Sleep and Social Behavior) presented at the annual meeting of the Society for Personality and Social Psychology, San Diego, CA.'

Winnick, J. B.; Berg, C. A.; Wiebe, D. J.; Schaefer, B. A.; Lei, P.-W. & **Butner, J. E.** (2017), 'Metabolic Control and Academic Achievement Over Time Among Adolescents With Type 1 Diabetes.'Poster', Educational Publishing Foundation.

Butner, J.E. (2017). Simplifying the complexity of interpersonal emotion dynamics with regression graphics. Organizer and speaker in symposium at the International Conference on Psychological Sciences, Vienna, Austria.

Butner, J.E. & Berg, C. A. (2017). Dynamical systems modeling, 3 hour workshop for Society for Behavioral Medicine. San Diego, CA.

Butner, J.E. (2017). A dynamical systems take on group dynamics. Invited talk at Chapman University.

Butner, J.E. (2018). Attendee to the Dynamical Systems Workshop at the Army Research Laboratory West.

Butner, J.E. (2018). Revisiting the dialectic nature of affect: A dynamical systems approach. Invited talk at Claremont Graduate College.

Butner, J.E. & Baucom, B. (2018). Five day workshop in conjunction with ICPSR on dynamical systems analytic techniques.

Butner, J.E. & Baucom, B. (2019). Five day workshop in conjunction with ICPSR on dynamical systems analytic techniques.

Butner, J.E. (2019). Workshop at ABCT on integrating Dynamical Systems and Interventions/Treatment studies.

Active Grants

NIH/NIA: 1R01MH119084-01A1 (Bulik, Butner)

Predicting Binge and Purge Episodes from Passive and Active Apple Watch Data

Using a Dynamical Systems Approach

Start-end: 09/23/2019 – 07/31/2023

Total budget: \$2,935,155 (\$2,028,407 direct costs)

Commitment in person-months per year: 1.8 months in year one, 2.4 calendar months in remaining

NIH/NIMH (Crowell/Conradt, MPI) – Emotion dysregulation across generations: Identifying early developmental and clinical indicators of risk

Start-end: 6/5/19-2/29/24

Total budget: \$3,555,652 (\$2,336,739 direct costs)

Commitment per year: 1.2 calendar months (Y2-3), 1.8 calendar months (Y4-5)

Aim: To study the prenatal origins of emotion dysregulation, and how it develops in both mother and child over the first years of life, providing valuable clinical information about how to prevent transmission of risk for emotion dysregulation across generations

NIH/NIA: 1R03AG063044 (Euler)

Task-related EEG activation as a biomarker for early Alzheimer's Disease

Start-end: 4/1/19-3/31/21

Total budget: \$305,000 (\$200,000 direct costs)

Commitment per year: 1.2 calendar months

Aim: To examine the translational potential of specific task-related EEG signals (mid-frontal theta power; MFT) as a possible biomarker of Alzheimer's disease

NIH-NIMH: 1R01MH117600 (Bryan)

Identifying Suicidal Subtypes and Dynamic Indicators of Increasing and Decreasing Suicide Risk

Start-end: 8/20/2018-6/30/2021

Total budget: \$1,028,842 (directs: \$862,246; indirects: \$166,597)

Commitment in person-months per year: 1 month in year 1; 1.8 months in years 2-3.

Goal: Examine for attractor dynamic patterns as precursor to suicide in several established datasets on veterans.

NSF: 1628583 (Cashdan (PI); Stefanucci (co-PI))

IBSS: Mobility and Spatial Reasoning from Middle Childhood Through Adolescence: A Cross-Cultural Study

Start-End: 9/1/2016-8/31/2018 (NCE through 8/31/2019)

Total budget: \$199,926 (directs: \$158,671; indirects: \$41,255)

Commitment in person-months per year: 0.25 months in year 2.

Goal: Examine the linkage between spatial reasoning skills and behavioral mobility among children in indigenous cultures.

Pending Support:

UNC-Chapel Hill/NIH (Butner, subaward PI) – Predicting binge and purge episodes from passive and active Apple Watch data using a dynamical systems approach

Start-end: 4/1/19-3/31/23

Total budget: \$1,163,924 (\$764,950 direct costs)

Commitment per year: 1.8 calendar months yr. 1; 2.4 calendar months yrs. 2-4

Aim: Examine attractor dynamics in active and passive mobility data as precursor to binge eating and purging.

Recent Past Support:

NIH-NIDDK: 1DP3DK103999 (Berg)

Self-Regulation and Collaborative Coping with Type 1 Diabetes over Life Span

Start-end: 9/18/2014-6/30/2019

Total budget: \$3,874,558 (directs: \$3,229,746; indirects: \$644,812)

Commitment in person-months per year: 0.5 months in year 1; 1.6 months in years 2-5.

Goal: Examine Couple dynamics for coping in couples where one individual has type 1 diabetes.

NSF: 1329091 (Cashdan (PI); Creem-Regehr, Miller & Stefanucci (co-PI's))

IBSS: Age Changes and Sex Differences in Spatial Cognition: Testing the Role of Mobility in Three Non-Industrial Societies and the US

Start-end: 9/15/2013-2/28/2018 (NCE through 2/28/2019)

Total budget: \$999,871 (directs: \$699,629; indirects: \$300,242)

Commitment in person-months per year: 0.15 months in each of the five years.

Goal: Examine the linkage between spatial reasoning skills and behavioral mobility among adults in indigenous cultures.

NIH-NIA: 1R03AG048333 (Queen)

Health Influences on Trajectories of Activity Engagement in Older Couples

Start-end: 9/15/2015-4/30/2017

Total budget: \$149,000 (directs: \$100,000; indirects: \$49,000)

Commitment in person-months per year: .23 calendar months.

Goal: Examine patterns of physical activity and interpersonal engagement that have potential health benefits in older couples.

NIH-NCI: 5R01CA158322 (Leachman & Aspinwall)

Impact of Melanoma Genetic Testing on Health Cognitions and Prevention Behaviors

Start-end: 4/8/2011-3/31/2016

Total budget: \$2,719,544 (directs: \$1,821,376; indirects: \$898,168)

Commitment in person-months per year: 1 month in each of the five years.

Goal: Examine the impact of receiving genetic testing for skin melanoma on later sun-based health behaviors.

NIH-NIDDK: R01DK092939 (Berg & Wiebe)

A Self-Regulation Approach to Diabetes Adherence into Emerging Adulthood

Start-end: 7/1/2011-4/30/2016

Total budget: \$2,790,631 (directs: \$2,292,909; indirects: \$497,722)

Commitment in person-months per year: 0.6 months in year 1; 2 months per year in years 2-5.

Goal: To examine how parental involvement may be especially important for adolescents who experience poor regulatory and executive function abilities as they emerge into adulthood and take greater independent responsibility for their chronic illness.

NASA: NNX11AR71A (Butner)

Assessing Performance in Nonlinear Management Systems

Start-end: 4/1/2014-3/31/2016

Total budget: \$389,000 (directs: \$261,074; indirects: \$127,926)

Commitment in person-months per year: 2 months.

Goal: Predict budget and scheduling overruns in the NASA management system.

Northrop Grumman Corporation (flow through DOD): 7500133206 (Bryan)

Time-Dependent Analysis

Start-end: 6/10/2015-3/29/2016

Total budget: \$213,973 (directs: \$143,606; indirects: \$70,367)

Commitment in person-months per year: 1.2 calendar months.

Goal: Differentiate attractor dynamic patterns in social media data among veterans who died by suicide in comparison to those who died due to other reasons.

Previous support (more than 5 years)

Sansone, C., Zachary, J. L., & Thompson, W. B. (2008). Increasing student motivation without compromising student performance in online classes. National Science Foundation, \$499,370 (DRL-0735264). Role – consultant.

Hwang, W. (2007). Adapting cognitive behavioral therapy (CBT) for Chinese Americans. National Institutes for Mental Health, \$405,000 (1 R34 MH073545-01A2). Role – consultant.

Wiebe, D., & Berg, C. (2005). R01 at the National Institute of Mental Health, \$2,800,000. Role – consultant.

Kramer, M. (2005). Cell-phone-induced distraction in adolescent drivers. R03 at the National Institute of Mental Health, \$100,000. Role – consultant.

Florsheim, P. (2004). Preventive intervention for young co-parenting in couples. R21 at the National Institute of Mental Health, \$375,000. Role – consultant.

Butner J. & Diamond, L.M. (2003). *Coregulation of positive affect in couples: Associations with future well-being and relationship quality*. College of Social and Behavioral Sciences Incentive Grant, \$6,000. Goal – Expanding on a new statistical technique for modeling entrainment of positive and negative affect in dyads.

Diamond, L.M. & Butner, J. (2003). *Coregulation of positive affect in couples: Associations with future well-being and relationship quality*. John Templeton Foundation, Young

Scholar Grant in Positive Psychology, \$10,000. Goal – Expanding on a new statistical technique for modeling entrainment of positive and negative affect in dyads.

Khoo, S.T., & Butner, J. (1999). *Measurement models in longitudinal growth curve analysis*.

John Hopkins University, total grant \$6400. Goal – Examine the role of second order multifactor models in growth curve analysis.

Adhoc Reviewer Over last Five Years for the following journals

American Psychologist

Current Directions in Psychological Science

Emotion

Journal of Mathematical Psychology

Journal of Organizational Behavior

Journal of Social and Clinical Psychology

Learning and Individual Differences

Multivariate Behavioral Research

Health Psychology

Personality and Individual Differences

Psychological Methods

Journal of Counseling Psychology

Structural Equation Modeling