

**Curriculum Vitae**  
**Zachary Easton Imel, PhD**

**CONTACT INFORMATION**

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Business Address: University of Utah  
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**EDUCATION**

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**Fellowship**                      **VA Puget Sound Health Care System (VAPSHCS), Seattle**  
2009 – 2011                      1660 South Columbian Way, Seattle, WA, 98108  
    APA Accredited Psychology Fellowship  
    Mental Illness Research, Education, and Clinical Center

**Ph.D.**                                      **University of Wisconsin-Madison**  
2003-2009                      1000 Bascom Mall, 301 Education Building, Madison, WI, 53706  
    Counseling Psychology; APA accredited

**Internship**                      **VA Puget Sound Health Care System (VAPSHCS), Seattle**  
2008 – 2009                      1660 South Columbian Way, Seattle WA 98108  
    APA Accredited Psychology Internship Program

**M.A.**                                      **University of Missouri-Columbia**  
2001-2003                      16 Hill Hall, Columbia, Missouri, 65211  
    Major: Counseling Psychology

**Bachelor of Arts**                      **Westminster College**  
1997-2001                      501 Westminster Ave., Fulton, Missouri, 65251  
    Majors: Psychology and Religious Studies; *Magna cum laude*.

**POSITIONS**

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2011-Present                      *Assistant Professor*, Department of Educational Psychology, Counseling Psychology Program, University of Utah, Salt Lake City, UT.

2012-Present                      *Adjunct Assistant Professor*, Department of Psychiatry, School of Medicine, University of Utah, Salt Lake City, UT.

2011-Present                      *Staff Associate*, University Counseling Center, University of Utah, Salt Lake City, UT.

2009-2011                      *Postdoctoral Fellow*, Mental Illness Research, Education, and Clinical Center, VA Puget Sound Health Care System, Seattle; APA accredited.

2009-2011                      *Acting Instructor*, Department of Psychiatry and Behavioral Sciences, School of Medicine and Public Health, University of Washington-Seattle.

## HONORS/AWARDS

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- 2015 *Faculty Fellow*, University Research Committee, University of Utah.
- 2015 *Outstanding Research and Scholarship Award*, College of Education, University of Utah.
- 2014 *Early Career Award*, American Psychological Foundation/Division 29 (Psychotherapy).
- 2013 *Excellence in Teaching Award*, Presented by 3<sup>rd</sup> and 4<sup>th</sup> year Residents, Department of Psychiatry, School of Medicine, University of Utah.
- 2009 *Outstanding Graduate Student*, Counsel of Counseling Psychology Training Programs.
- 2009 *Graduate Student Research Award*, APA Division 17 Section for the Promotion of Psychotherapy Science for Imel, Malterer, McKay, & Wampold (2008).
- 2008 *Outstanding Psychotherapy Research Award*, APA Division 29 (Psychotherapy), for Baldwin, Wampold, and Imel (2007).
- 2008 *Vilas Travel Fellowship*, University of Wisconsin-Madison, Graduate School.
- 2007 *Hans H. Strupp Memorial Award*, North American Society for Psychotherapy Research.
- 2007 *John Rothney Award for Counseling Research*, Department of Counseling Psychology, University of Wisconsin-Madison.
- 2006 *Sol Garfield Memorial Award*, North American Society for Psychotherapy Research.
- 2004-2005 *Wakonse Teaching Fellow*, University of Wisconsin-Madison.
- 2001 *Member*, Alpha Chi National Honor Society
- 1997-2001 *Churchill Scholar*, Westminster College.

## PEER REVIEWED ARTICLES

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54. Pace, B.P.\*, Xiao, B., Soma, T.\*, Dembe, A.\*, Stevyers, M., Atkins, D.A., Narayanan, S., & **Imel, Z.E.** (in press). In the beginning there were words: The role of natural language processing in psychotherapy. *Psychotherapy Bulletin*.
53. Xiao, B., Georgiou, P.G., **Imel, Z.E.**, Atkins, D.C., & Narayanan, S.S. (in press). A technology prototype system for rating therapist empathy from audio recordings in addiction counseling. *PeerJ Computer Science*.
52. Xiao, Bo., **Imel, Z.E.**, Georgiou, P., Atkins, D., & Narayanan, S. (in press). Computational Analysis and Simulation of Empathic Behaviors: A Survey of Empathy Modeling with Behavioral Signal Processing Framework. *Current Psychiatry*.
51. Gaut, G., Steyvers, M., **Imel, Z.E.**, Atkins, D.C., Smyth, P. (2015). Automated global and localized content coding of psychotherapy transcripts using labeled topic models. *IEEE Journal of Biomedical and Health Informatics*. Epub ahead of print.
50. Burrow-Sanchez, J., Martin, J.L., & **Imel, Z.E.** (in press). Applying for grant funding as a counseling psychologist: From thought to action. *The Counseling Psychologist*.
49. Xiao, B., **Imel, Z.E.**\*\* , Georgiou, P.G., Atkins, D.C., & Narayanan, S.S. (2015). "Rate my therapist": Automated detection of empathy in drug and alcohol counseling. PLOS ONE. DOI: 10.1371/journal.pone.0143055
48. Can, D., Marin, R., **Imel, Z.E.**, Georgiou, P.G., Atkins, D.C., & Narayanan, S.S. (in press). "It sounds like...": A natural language processing approach to detecting counselor reflections in Motivational Interviewing. *Journal of Counseling Psychology*.

47. Tao, K.W., Owen, J., Pace, B.T.\* , & **Imel, Z.E.** (2015). A meta-analysis of multicultural competencies and psychotherapy process and outcome. *Journal of Counseling Psychology*, 62, 337-50. DOI: 10.1037/cou0000086.
46. Bryan, C.J., Griffith, J., Pace, B.T.\* , Hinkson, K., Bryan, A., Clemans, T., & **Imel, Z.E.** (2015). Combat exposure and risk for suicidal thoughts and behaviors among military personnel and veterans: a systematic review. *Suicide and Life Threatening Behavior*, 45, 633-649. DOI: 10.1111/sltb.12163
45. Brown, H.\* , Allred, H.\* , Melling, A.\* , Kelly, A.\* , **Imel, Z.E.**, & Simon, G.E. (2015). Problems with Using Patient Retention in the Evaluation of Mental Health Providers: Differences in Type of Dropout. *Psychiatric Services*, 66, 879-882. <http://dx.doi.org/10.1176/appi.ps.201400059>
44. Lord, S. P., Can, D., Yi, M. S. K., Marín, R. A., Dunn, C. W., **Imel, Z.E.**, Georgiou, P., Narayanan, S., Steyvers, M., & Atkins, D. C. (2015). Advancing methods for reliably assessing motivational interviewing fidelity using the Motivational Interviewing Skills Code. *Journal of Substance Abuse Treatment*, 49, 50-57.
43. **Imel, Z.E.**, Sheng, E., Baldwin, S.A., & Atkins, D.C. (2015). Removing very low-performing therapists: A simulation of performance-based retention in psychotherapy. *Psychotherapy*, 52, 329-36. <http://dx.doi.org/10.1037/pst0000023>
42. Lord, S. P., Sheng, E., **Imel, Z. E.**, Baer, J. S., & Atkins, D. C. (2015). More than reflections: Empathy in motivational interviewing includes language style synchrony between counselor and client. *Behavior Therapy*, 46, 296-303.
41. **Imel, Z.E.**, Steyvers, M., Atkins, D.C. (2015). Computational Psychotherapy Research: Scaling up the evaluation of patient provider interactions. *Psychotherapy*, 52, 19-30. doi: <http://dx.doi.org/10.1037/a0036841>
40. Owen, J., Tao, K.W., **Imel, Z.E.**, Wampold, B.E., & Rodolfa, E. (2014). Addressing racial and ethnic microaggressions in therapy. *Professional Psychology: Research and Practice*, 45, 283-290.
39. Dunn, C.W., Darnell, D., Yi, M.S.K., Steyvers, M., Bumgardner, K., Lord, S.P., **Imel, Z.E.**, & Atkins, D. C. (2014). Should we trust our judgments about the proficiency of Motivational Interviewing counselors? A glimpse at the impact of low inter-rater reliability? *Motivational Interviewing: Treatment, Research, Implementation, and Policy*, 1, 38-41. doi: 10.5195/mitrip.2014.43
38. Atkins, D.C., Steyvers, M., **Imel, Z.E.**, & Smyth, P. (2014). Scaling up the evaluation of psychotherapy: evaluating motivational interviewing fidelity via statistical text classification. *Implementation Science*, 9, 49. doi:10.1186/1748-5908-9-49. PMCID: PMC4026152
37. **Imel, Z.E.**, Baldwin, S., Baer, J., Hartzler, B., Dunn, C., Rosengren, D., & Atkins, D.C. (2014). Evaluating therapist adherence in motivational interviewing by comparing performance with standardized and real patients. *Journal of Consulting and Clinical Psychology*. 82(3), 472-481. doi: <http://dx.doi.org/10.1037/a0036158>. PMCID: PMC4029916
36. Baldwin, S.A., **Imel, Z.E.**, Braithwaite, S., & Atkins, D.C. (2014). Analyzing multiple outcomes using multivariate multilevel models. *Journal of Consulting and Clinical Psychology*. 82(5), 920-30. doi: <http://dx.doi.org/10.1037/a0035628>.
35. **Imel, Z.E.**, Barco, J.S.\* , Brown, H.\* , Baucom, B.R., Baer, J.S., Kircher, J., & Atkins, D.C. (2014). Synchrony in vocally encoded arousal as an indicator of therapist empathy in

motivational interviewing. *Journal of Counseling Psychology*, 61(1), 146-53. doi: 10.1037/a0034943. PMID: PMC4133554

34. **Imel, Z.E.**, Laska, K., Jakupcak, M., & Simpson, T. (2013). Meta-analysis of dropout in treatments for post-traumatic stress disorder. *Journal of Consulting and Clinical Psychology*, 81(3), 394-404. doi: 10.1037/a0031474. PMID: PMC3893277.
33. Hawkins, E.J., Malte, C.A., Grossbard, J., Saxon, A.J., **Imel, Z.E.**, & Kivlahan, D.K. (2013). Comparative Safety of Benzodiazepines and Opioids Among Veterans Affairs Patients with Posttraumatic Stress Disorder. *Journal of Addiction Medicine*, 7(5), 354-62. PMID: 24091764.
32. **Imel, Z.E.**, Hubbard, R., Rutter, C., & Simon, G.E. (2013). Patient rated alliance as a measure of therapist performance in two clinical settings. *Journal of Consulting and Clinical Psychology*, 81(1), 154-165. PMID: 23231576.
31. Baldwin, S., **Imel, Z.E.**, Atkins, D.C. (2012). The Influence of therapist variance on the Dependability of Therapists' Alliance Scores: *Journal of Consulting and Clinical Psychology*, 80(5), 947-51.
30. Owen, J., **Imel, Z.E.**, Adelson, J., Wampold, & Rodolfa, E. (2012). 'No-show': Therapist Racial/Ethnic Disparities in Client Unilateral Termination. *Journal of Counseling Psychology*, 59, 314-20. PMID: 22352948
29. Hawkins, E., Malte, C., **Imel, Z.E.**, Saxon, A., & Kivlahan, D. (2012). Prevalence and Trends in Benzodiazepine use Among VA Patients with PTSD in VISN 20, 2003-2010. *Psychology of Addictive Behaviors*, 142, 154-61. PMID: 22305658.
28. Simon, G., **Imel, Z.E.**, Steinfield, B.J. (2012). Is dropout after a first psychotherapy visit always a bad outcome? *Psychiatric Services*, 63, 705-7. PMID: PMC3708593.
27. Hoerster, K.D., Malte, C.A., **Imel, Z.E.**, Ahmad, Z., Hunt, S.C., Jakupcak, M. (2012). Association between perceived barriers and prospective VA mental health care utilization among Iraq and Afghanistan War Veterans. *Psychiatric Services*, 63, 380-2. PMID: 22476304.
26. MacCoon, D.G., **Imel, Z.E.**, Rosenkranz, M.A., Sheftel, J.G., Weng, H.Y., Sullivan, J.C., Bonus, K.A., Stoney, C.M., Salomons, T.V., Davidson, R.J., Lutz, A. (2012). The validation of an active control intervention for Mindfulness Based Stress Reduction (MBSR). *Behaviour Research and Therapy*, 50, 3-12. PMID: PMC3257026.
25. **Imel, Z.E.**, Baldwin, S.A., Atkins, D., Owen, J., Baardseth, T., & Wampold, B.E. (2011). Racial/ethnic disparities in therapist effectiveness: A conceptualization and initial study of cultural competence. *Journal of Counseling Psychology*, 58, 290-298. PMID: 21534654.
24. **Imel, Z.E.**, Baer, J. Martino, S.M., Ball, S., Carroll, K. (2011). Mutual influence in therapist competence and adherence to motivational enhancement therapy. *Drug and Alcohol Dependence*, 115, 229-236. PMID: PMC3397170.
23. Owen, J., **Imel, Z.E.**, Tao, K.W., Wampold, B.E., & Rodolfa, E. (2010). Cultural ruptures in short-term therapy: Working alliance as a mediator between clients' perceptions of microaggressions and therapy outcomes. *Counseling and Psychotherapy Research*.
22. Wampold, B.E., **Imel, Z.E.**, Laska, K.M., Benish, S., Miller, S., Flückiger, C., Del Re, A.C., & Baardseth, T.P., & Budge, S. (2010). Determining what works in the treatment of PTSD. *Clinical Psychology Review*, 30, 923-933. doi:10.1016/j.cpr.2010.06.005. PMID: 20638168.

21. Jakupcak, M., Vannoy, S., **Imel, Z.E.**, Cook, J., Fontana, A., Rosenheck, R., McFall, M. (2010). Does PTSD moderate the relationship between social support and suicide risk in Iraq and Afghanistan War Veterans seeking mental health treatment. *Depression and Anxiety*, 27, 1001-1005. doi:10.1002/da.20722. PMID: PMC3038554.
20. Wampold, B.E., **Imel, Z.E.**, Miller, S. (2009). Barriers to the dissemination of Empirically Supported Treatments. *The Behavior Therapist*, 32, 144-155.
19. McCutcheon, S.R., & **Imel, Z.E.**, (2009). Valuing diversity: How do we implement our best intentions? *The Counseling Psychologist*, 37, 760-771. doi:10.1177/0011000009334094.
18. Jakupcak, M., Cook, J., **Imel, Z.E.**, Fontana, A., Rosenheck, R., McFall, M. (2009). Posttraumatic Stress Disorder as a Risk Factor for Suicidal Ideation in Iraq and Afghanistan Combat Veterans. *Journal of Traumatic Stress*, 22, 303-306. doi:10.1002/jts.20423. PMID: 19626682.
17. **Imel, Z.E.**, Wampold, B.E., & Miller, S. (2008). Distinctions without a difference: A meta-analysis of psychological treatments for alcohol abuse. *Psychology of Addictive Behaviors*, 22, 533-543. doi:10.1037/a0013171. PMID: 19071978.
16. **Imel, Z.E.**, Baldwin, S.A., & MacCoon, D.G., & Bonus, K. (2008). Beyond the Individual: An investigation of group effects in a mindfulness based stress reduction program. *Psychotherapy Research*, 18, 735-742. doi:10.1080/10503300802326038. PMID: 18815948.
15. **Imel, Z.E.**, Malterer, M., McKay, K.M., & Wampold, B.E. (2008). A meta-analysis of psychotherapy and medication in unipolar depression and dysthymia. *Journal of Affective Disorders*, 110, 197-206. doi:10.1016/j.jad.2008.03.018.
14. Hoyt, W.T., **Imel, Z.E.**, Chan, F. (2008). Multiple regression and correlation techniques: Recent controversies and best practices. *Rehabilitation Psychology*, 53, 321-339. doi:10.1037/a0013021.
13. Benish, S.M., **Imel, Z.E.**, & Wampold, B.E. (2008). The relative efficacy of bona fide psychotherapies for treatment posttraumatic stress disorder: A meta-analysis of direct comparisons. *Clinical Psychology Review*, 28, 746-758. doi:10.1016/j.cpr.2007.10.005. PMID: 18055080.
12. Baldwin, S.A., Wampold, B.E., & **Imel, Z.E.** (2007). Untangling the alliance-outcome correlation: Exploring the relative importance of therapist and patient variability in the alliance. *Journal of Consulting and Clinical Psychology*, 75, 842-852. doi:10.1037/0022-006X.75.6.842. PMID: 18085902.
11. Wampold, B.E., **Imel, Z.E.**, & Minami, T. (2007). The placebo effect: "Relatively large" and "robust" enough to survive another assault. *Journal of Clinical Psychology*, 63, 401-403. doi:10.1002/jclp.20350. PMID: 17279522.
10. Wampold, B.E., **Imel, Z.E.**, & Minami, T. (2007). The story of placebo effects in medicine: Evidence in context. *Journal of Clinical Psychology*, 63, 379-390. doi:10.1002/jclp.20354. PMID: 17279527.
9. McKay, K.M., **Imel, Z.E.**, & Wampold, B.E. (2006). Psychiatrist effects in the psychopharmacological treatment of depression. *Journal of Affective Disorders*, 92, 287-290. doi:10.1016/j.jad.2006.01.020. PMID: 16503356.
8. Wampold, B.E., & **Imel, Z.E.** (2006). Psychotherapy stories: A textbook case of privilege. *PsycCRITIQUES*, 51, no pagination. doi:10.1037/a0002225.

## BOOK CHAPTERS

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7. Wampold, B.E., Baldwin, S.A., grosse Holtforth, M., & Imel, Z.E. (in press). There are therapist effects but what characterizes effective therapists? In L. Castonguy & C. Hill (Eds.), *Therapist Effects*. Washington DC: APA.
6. Baldwin, S.A., & Imel, Z.E. (2013). Therapist Effects: Findings and Methods. In M.J. Lambert, (Ed.), *Bergin and Garfield's Handbook of Psychotherapy and Behavior Change*. (5<sup>th</sup> ed., p. 258-297). New Jersey: Wiley.
5. Owen, J., & Imel, Z.E. (2010). Utilizing rating scales in psychotherapy practice: Theory & application. In L. Baer & M.A. Blais (Eds.), *Handbook of Clinical Rating Scales and Assessment in Psychiatry and Mental Health*. (pp. 257-270). New York: Humana Press.
4. Imel, Z.E. (2009). Common factors in psychotherapy. In F.T. Leong (Ed.), *Encyclopedia of counseling psychology*. New York: Sage.
3. Imel, Z.E. & Wampold, B. E. (2008). The importance of treatment and the science of common factors in psychotherapy. In S.D. Brown & R.W. Lent (Eds.), *Handbook of counseling psychology* (4<sup>th</sup> ed). (pp. 249-266). New York: Wiley.
2. Wampold, B.E., Imel, Z.E., Bhati, K.S., & Johnson-Jennings, M.D. (2006). Insight as a common factor. In L.G. Castonguay & C.E. Hill, (Eds.), *Insight in Psychotherapy* (pp. 119-137). Washington DC: APA. doi:10.1037/11532-006.
1. Slaughter, J., & Imel, Z.E. (2005). Conversion disorder: A disorder of somatic self-awareness. In B.D. Beitman & J. Nair, (Eds.), *Self-awareness deficits in Psychiatric Patients: Neurobiology, Assessment, and Treatment*. (pp. 280-297). New York: Norton.

## PEER REVIEWED CONFERENCE PROCEEDINGS/WORKSHOPS

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5. Xiao, B., Imel, Z.E., Atkins, D., Georgiou, P., & Narayanan, S. (September, 2015). Analyzing Speech Rate Entrainment and Its Relation to Therapist Empathy in Drug Addiction Counseling. *Paper presented at Interspeech, Dresden, Germany*.
4. Chakravarthula, S.N., Xiao, B., Imel, Z.E., Atkins, D., Georgiou, P., & Narayanan, S. (September, 2015). Assessing Empathy using Static and Dynamic Behavior Models based on Therapist's Language in Addiction Counseling. *Paper presented at Interspeech, Dresden, Germany*.
3. Xiao, B., Bone, D., Van Segbroeck, Imel, Z.E., Atkins, D.C., Georgiou, P.G., & Narayanan, S.S. (September, 2014). Modeling therapist empathy through prosody in drug addiction counseling. *Paper presented at Interspeech, Singapore*.
2. Xiao, B., Georgiou, P.G., Imel, Z.E., Atkins, D., & Narayanan, S.S. (September, 2013). Modeling therapist empathy and vocal entrainment in drug addiction counseling. *Paper presented at Interspeech, Lyon, France*
1. Tanana, M.\*, Hallgren, K. Imel, Z.E., Atkins, D.C., Smyth, P., & Srikumar, V. (2015). Recursive Neural Networks for Coding Therapist and Patient Behavior in Motivational Interviewing. *Paper presented at Conference of the North American Chapter of the Association for Computational Linguistics HLT, Computational Linguistics and Clinical Psychology Workshop (CLPsych), Denver, CO*.

\*Student

\*\*Corresponding Author.

## BOOKS

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Wampold, B.E., & Imel, Z.E. (2015). *The Great Psychotherapy Debate*. (2<sup>nd</sup> ed.). New Jersey: Routledge.

## MANUSCRIPTS UNDER REVIEW

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- Tanana, M.\*, Soma, T.\*, Atkins, D.A., Imel, Z.E., Srikumar, V. (2016). Therapy Bot: A Self-Taught Computerized Therapist. ACM Computer Human Interaction (CHI), Mental Health Workshop. San Jose, CA. Conference Paper Under Review.
- Gibson, J., Grey, G., Hirsch, T., Imel, Z.E., Narayanan, S., & Atkins, D.A. (2016). Developing an Automated Report Card for Addiction Counseling: The Counselor Observer Ratings Expert for MI (CORE-MI). ACM Computer Human Interaction (CHI), Mental Health Workshop. San Jose, CA. Conference Paper Under Review.
- Tanana, M.\*, Hallgren, K. Imel, Z.E., Atkins, D.C., & Srikumar, V. (2015). A Comparison of Natural Language Processing Methods for Automated Coding of Motivational Interviewing. *Journal of Substance Abuse Treatment*. Revise and Resubmit.
- Dunn, C., Darnell, D., Atkins, D.C., Hallgren, K., Imel, Z.E., Bumgardner, K., & Roy-Byrne, P. (2015). Provider Variability in Motivational Interviewing Integrity for Three Years After Training. *Journal of Substance Abuse Treatment*. Revise and Resubmit.
- Baucom, B.R., Crenshaw, A.O., Atkins, D.C., Imel, Z.E., Bryan, C.J. (2015). Collaborative processes during crisis intervention for suicidality. Manuscript in preparation.
- Dembe, A.\*, Pace, B.\*, Atkins, D.C., & Imel, Z.E. (2015). Evaluating the specificity of observer rated measures of Empathy in substance abuse counseling. Manuscript in preparation.
- Dembe, A.\*, Atkins, D.C., & Imel, Z.E. (2015). Patterns of emotional expression in Motivational Interviewing. Manuscript in preparation.
- Pace, B.T.\*, Baldwin, S.A., Dembe, A.\*, Soma, T.\*, & Atkins, D.C., & Imel, Z.E. (2015). Why Does Motivational Interviewing work? A meta-analysis of adherence and outcomes. Manuscript in preparation.
- Soma, C.S.\*, Xiao, B., Atkins, D.C., Narayanan, S., & Imel, Z.E. (2015). Social regulation of emotion: The therapeutic relationship as a dynamic system. Manuscript in Preparation.

## FUNDING

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### Active

NIH/NIDA R34 DA034860

Project Title: Development and Feasibility of Computer Based Fidelity Monitoring for MI

Role: PI (D. Atkins; MPI)

Total Costs \$742,624; 7/1/13 – 6/30/16

NIH/NIAAA 1 R01 AA018673

Project Title: Automating Behavioral Coding via Text-mining and Speech Signal Processing

Role: Co-I (D. Atkins & M. Steyvers; MPIs)

Total Costs: \$2,849,613; 9/1/10 – 8/31/15

Extramural Loan Repayment Program for Clinical Research – Renewal (NIAA; LRP-CR)  
9/1/2015-8/31/2016

### Pending

NIH/NIAAA 2 R01 AA018673

Project Title: Implementation of Technology-Based Evaluation of Motivational Interviewing

Role: Co-I (D. Atkins & S. Narayanan; MPIs)  
Total Costs: \$3,554,426: 5/1/16 – 4/31/21

NIH/NIAAA 1 R01 AA024625

Project Title: Natural Language Processing of Specific and General Mechanisms in  
Motivational Interviewing

Role: PI

Total Costs: \$3,305,849: 1/1/16 – 12/31/21

### **Completed**

Non-tenured Faculty Research Grant, College of Education, University of Utah

Project Title: Alone in the Crowd: The Evaluation of Counselor Expertise.

Role: PI

Total Costs: \$3,375; 9/1/14-8/31/15

Extramural Loan Repayment Program for Clinical Research (NIDA; LRP-CR)

9/1/2012-8/31/2014

Institute of Translational Health Sciences (UL1RR025014); NIH National Center for Research  
Resource, Small Pilot Grant.

Project Title: The feasibility of utilizing administrative outcomes monitoring data to  
evaluate Cognitive Processing Therapy and Prolonged Exposure

Role: PI (Tracy Simpson, Co-I).

Total Costs: \$9,898; 2/2011-1/2013

University of Utah Seed Grant, VP for Research

Project Title: A model of therapist empathy based on acoustic and semantic synchrony.

Role: PI (John Kircher, Co-I)

Total Costs: \$29,500; 7/1/2012-6/31/2013

Proposal Development Grant, College of Education, University of Utah

Project Title: The source of provider racial/ethnic disparities in mental health outcomes.

Role: PI

Total Direct Costs: \$4,000; 1/15/13-5/1/13

Deans Special Initiative Grant Program, College of Education, University of Utah

Project Title: "The Structure of Psychotherapy: Unsupervised discovery of  
psychotherapy 'topics' with text-mining procedures"

Role: PI

Total Direct Costs; \$3,425; 9/1/2012-12/31/12

Mental Illness Research, Education, and Clinical Center (MIRECC); Pilot Funds

Project Title: The effect of trauma focus on drop-out in the treatment of post-traumatic  
and acute stress disorder.

Role: PI

Total Costs: \$2,445; 2010-2011.

Regional Office for Children, Youth and Family Affairs, Tønsberg, Norway

Project Title: Using Client Feedback to Improve Couple Therapy Outcomes: A  
Randomized Clinical Trial in a Naturalistic Setting.

Role: Statistical Consultant, 2007-2008 (PI: M. G. Anker)

SIAC/Department of Defense (DoD), Center for the Study of Therapeutic Change

Project Title: Effectiveness of Adolescent Substance Abuse Counseling Services for  
Adolescent Family Members of Active Duty Military Personnel.

Role: Statistical Consultant; 2006-2007 (PI: S.D. Miller)



## INTERNATIONAL PRESENTATIONS

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- Imel, Z.E.** (June, 2015). Computational approaches to mining the raw data of psychotherapy. In O. Gelo (Chair), *Text analysis in psychotherapy research: Between quantitative and qualitative approaches. Participant in structured Discussion at the 46<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Philadelphia, Pennsylvania.*
- Imel, Z.E.**, Sheng, E., Baldwin, S.A., & Atkins, D.C. (June, 2015). Removing very low-performing therapists: A simulation of performance-based retention in psychotherapy. *Paper presented at the 46<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Philadelphia, Pennsylvania.*
- Dembe, A., & Imel, Z.E. (June, 2015). Co-variation of therapist and client emotional valence in Motivational Interviewing. *Poster presented at the 46<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Philadelphia, Pennsylvania.*
- Pace, B., & Imel, Z.E. (June, 2015). Using the wisdom of the client crowd to predict therapist performance. *Poster presented at the 46<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Philadelphia, Pennsylvania.*
- Bryan, C.J., Griffith, J., Pace, B.T., Hinkson, K., Bryan, A.O., Clemans, T.A., & **Imel, Z.E.** (June 2015). Combat exposure and risk for suicidal thoughts and behaviors among military personnel and veterans: a systematic review and meta-analysis. In C.J. Bryan (Chair), *Advances in understanding suicide in the U.S. military.* Paper presented at the biennial meeting of the International Association for Suicide Prevention, Montreal, Canada.
- Atkins, D.C., & **Imel, Z.E.** (June, 2014). Computational psychotherapy research: Can we use technology to scale up patient/provider evaluation? *The Language of Interaction: Quantitative Tools from Engineering, Computer Science, and Clinical Psychology. Volkswagenstiftung, Heidelberg, Germany.*
- Imel, Z.E.** (June, 2014). Empathy: What is it, and how do we measure it? *The Language of Interaction: Quantitative Tools from Engineering, Computer Science, and Clinical Psychology. Volkswagenstiftung, Heidelberg, Germany.*
- Steyvers, M., **Imel, Z.E.**, Atkins, D., & Smyth, P. (October, 2014). Computational Psychotherapy. *Asia-Pacific Conference on Computational Behavioral Sciences. Seoul, Korea.*
- Imel, Z.E.**, Baer, J. Martino, S.M., Ball, S., Carroll, K. (2010, June). Client related effects on therapist adherence and competence in motivational enhancement therapy (MET). *Paper presented at the 41<sup>st</sup> annual meeting of the International Society for Psychotherapy Research, Asilomar, CA.*
- Imel, Z.E.**, Wampold, B.E., Baldwin, S., & Baardseth, T. (2008, June). An empirically derived estimate of cultural competence in the cannabis youth treatment study. *Paper presented at the 39<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Barcelona, Spain.*
- Wampold, B.E., **Imel, Z.E.**, & Baardseth, T. (2008, June). Methods for empirically estimating cultural competence. *Paper presented at the 39<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Barcelona, Spain.*
- Owen, J., **Imel, Z.E.**, Tao, K.W., Smith, A., & Rodolfa, E. (2008, June). Cultural ruptures: A preliminary multilevel examination of racial microaggressions in psychotherapy. *Paper*

*presented at the 39<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Barcelona, Spain.*

**Imel, Z.E.,** Baldwin, S.A., & MacCoon, D., Bonus, K. (2007, June). Group effects in a mindfulness based stress reduction program. *Paper presented at the 38<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Madison, WI.*

**Imel, Z.E.,** Guequierre, L., Montero, R., Scull, N., Wampold, B.E. (2007, June). A meta-analysis of bona-fide treatments for alcohol use disorders. *Poster presented at the 38<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Madison, WI.*

**Imel, Z.E.,** & Wampold, B.E. (2006, June). Content or context: The implications of psychotherapy research for applied neuroscience. *Paper presented at the annual meeting of the 37<sup>th</sup> International Society for Psychotherapy Research, Edinburgh, UK.*

**Imel, Z.E.,** Malterer, M., McKay, K.M, & Wampold, B.E. (2006, June). Null again!? A meta-analysis of medication vs. psychotherapy comparison trials for depression. *Poster presented at the 37<sup>th</sup> annual meeting of the International Society for Psychotherapy Research, Edinburgh, UK.*

## **NATIONAL PRESENTATIONS**

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**Imel, Z.E.,** Xiao, B., Georgiou, P., Narayanan, S., & Atkins, D. (May, 2015). Scaling up the evaluation of Motivational Interviewing: Modeling MI adherence with statistical text mining and speech signal processing. In S. Martino (Chair), *Training Motivational Interviewing: New Directions in Research. Symposium presented at the 27th Association of Psychological Science Annual Convention, New York, NY.*

Atkins, D.A, **Imel, Z.E,** Steyvers, M. (November, 2014). How text-mining methods can enhance psychotherapy mechanism research. In (N. Jacobson, Chair). *Novel Analytic Methods to Clinical Psychology. Symposium presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

Lord, S.P., Sheng, E., **Imel, Z.E.,** Baer, J.S., & Atkins, D.A. (November, 2014). More Than Reflections: Empathic Listening in Motivational Interviewing Includes Language Style Matching Between Counselor and Client. *Poster presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

Pace, B., **Imel, Z.E.,** Atkins, D.A., Baldwin, S.A., Lord, S.P., Dembe, A., Soma, T. (November, 2014). Why Does Motivational interviewing Work? A Network Meta-Analysis of Adherence and Outcomes. *Poster presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

Atkins, D.A., & **Imel, Z.E.** (Chairs, November, 2014) "Siri, Rate My Therapist": Interdisciplinary Research on Scaling Up the Evaluation of Psychotherapy. *Symposium presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

**Imel, Z.E.,** Lord, S.P., Sheng, E., & Baer, J.S., (November, 2014). Translational psychotherapy research: using computational methods to study the basic psychological processes of psychotherapy. In (Dave Atkins & **Zac Imel,** Chairs) "Siri, Rate My Therapist": Interdisciplinary Research on Scaling Up the Evaluation of Psychotherapy. *Symposium presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

Baucom, B.R., Crenshaw, A.O., Atkins, D.C., **Imel, Z.E.,** Bryan, C.J. (November, 2014). Collaborative emotional processes during crisis intervention for suicidality. In (Craig Bryan,

Chair) Brief Cognitive Behavioral Interventions to Reduce Suicide Attempts in Military Personnel. *Symposium presented at Association for Behavioral and Cognitive Therapies, 48<sup>th</sup> Annual Convention, Philadelphia, PA.*

Atkins, D.A., & Imel, Z.E. (May, 2014). Computational psychotherapy research: Can we use technology to scale up patient/provider evaluation? Prevention Science Methodology Group, Center for Prevention Implementation Methodology, Northwestern University, Feinberg School of Medicine, Chicago, IL

Imel, Z.E. (Chair, November, 2013). Developing Linguistic Models of Motivational Interviewing: An Interdisciplinary Collaboration. *Symposium presented at Association for Behavioral and Cognitive Therapies, 47<sup>th</sup> Annual Convention, Nashville, TN.*

Imel, Z., Barco, J., Brown, H., Baucom, B., Xiao, B., Baer, J., & Atkins, D. (November, 2013). Vocal tone synchrony as an indicator of empathy during motivational interviewing. In (Zac Imel, Chair) Developing Linguistic Models of Motivational Interviewing: An Interdisciplinary Collaboration. *Symposium presented at Association for Behavioral and Cognitive Therapies, 47<sup>th</sup> Annual Convention, Nashville, TN.*

Imel, Z.E. (Chair; August, 2013). Interpersonal Influence in Psychotherapy. *Symposium sponsored by Section for the Promotion of Psychotherapy Science (Division 17; Counseling Psychology) at the 121<sup>st</sup> Annual Convention of the American Psychological Association, Honolulu, HI.*

Imel, Z.E., Hunt, T., Barco, J., Brown, H., Kelly, A., & Atkins, D. (August, 2013). Coordination of Emotion Word Use in Therapist--Client Psychotherapy Dyads. In (Zac Imel, Chair) Interpersonal Influence in Psychotherapy. *Symposium sponsored by Section for the Promotion of Psychotherapy Science (Division 17; Counseling Psychology) at the 121<sup>st</sup> Annual Convention of the American Psychological Association, Honolulu, HI.*

Imel, Z.E. (August, 2013). Our time's up: Towards real-time evaluation of psychotherapy. In (Mark Hilsenroth, Chair) Interpersonal Influence in Psychotherapy. Celebrating the 50th Anniversary of *Psychotherapy*---Looking Ahead to the Next Decade of Research (Division 29; Psychotherapy) at the 121<sup>st</sup> Annual Convention of the American Psychological Association, Honolulu, HI.

Atkins, D., Imel, Z.E., Can, D., Xiao, B., Georgiou, P., Narayanan, S. (May, 2013). Scaling up assessment of therapist fidelity in Motivational Interviewing: Preliminary development of the 'AutoMITI'. *Presentation to the Seattle Implementation Research Conference, Seattle, WA.*

Imel, Z.E. (August, 2012). Emotional attunement: Toward a linguistic model of therapist empathy. In (Jeff Reese, Chair) New Ideas and Innovations in Psychotherapy. *Symposium sponsored by Section for the Promotion of Psychotherapy Science (Division 17; Counseling Psychology) at the 120<sup>th</sup> Annual Convention of the American Psychological Association, Orlando, FL.*

Barco, J., & Imel, Z.E. (March, 2012). The effects of self-defense training on self-efficacy and self-esteem: A meta-analysis. *Poster presented at the Association for Women in Psychology Conference. Palm Springs, CA.*

Owen, J., Imel, Z., & Wampold, B. (2011). New directions for multicultural competencies research. *Symposium at the annual meeting of the American Psychological Association, Washington, D.C.*

Owen, J. Imel, Z., Tao, K., & Obasi, E. (August, 2009). Racial/Ethnic microaggressions: Empirical evidence for understanding cultural ruptures in psychotherapy. *Symposium*

*presented at the 117<sup>th</sup> Annual Convention of the American Psychological Association. Toronto, Ontario, Canada.*

McKay, K.M., **Imel, Z.E.**, Woods, T.E., & Hoyt, W.T. (April, 2009). Drop-out in psychosocial oncology Treatment: A comparison of group- and treatment-effects in a mixed cancer sample. *Poster presented at the annual conference of the Society of Behavioral Medicine, Montreal, Canada.*

**Imel, Z.E.**, Guequierre, L., Montero, R., Scull, N., & Wampold, B.E. (2007, August). A meta-analysis of bona-fide treatments for alcohol use disorders: The effects of allegiance. *Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.*

Benish, S.M., **Imel, Z.E.** (2007, August). A meta-analysis of bona fide psychotherapies for post-traumatic stress disorder. *Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.*

Baldwin, S.A., Wampold, B.E., **Imel, Z.E.** (2007, August). Patient and therapist contributions to the alliance. *Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.*

**Imel, Z.E.**, & Wampold, B.E. (2006, October). Therapist effects: Conceptually simple, methodologically complex, strategically important. *Paper presented at the annual meeting of the North American Chapter, Society for Psychotherapy Research, Burr Oak, OH.*

McKay, K.M., & **Imel, Z.E.** (2006, October). Psychiatrist effects in the psychopharmacological treatment of depression. *Paper presented at the annual meeting of the North American Chapter, Society for Psychotherapy Research, Burr Oak, OH.*

Wampold, B.E., **Imel, Z.E.**, Bhati, K.S., & Johnson-Jennings, M.D. (August, 2006). Insight as a common factor. In (Louis G. Castonguay & Clara E. Hill, Chairs) Insight in psychotherapy: Theoretical perspectives and clinical issues. *Symposium at the 114<sup>th</sup> Annual Convention of the American Psychological Association, New Orleans, LA.*

**Imel, Z.E.** (2006, April). Discussant (F.B.M. de Waal, Author). Emotions in our primate kin: Sociality cooperation, and empathy. *Symposium presented at the annual Wisconsin Symposium on Emotion, Madison, WI.*

**Imel, Z.E.** (2005, April). Discussant (H.K. Manji, Author). Impairments of cellular plasticity and resilience in severe mood disorders: Therapeutic Implications. *Symposium presented at the annual Wisconsin Symposium on Emotion, Madison, WI.*

## **REGIONAL/LOCAL PRESENTATIONS**

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Soma, C. S., & **Imel, Z. E.** (2015, April). Social Regulation of Emotion: A mechanism in patient-therapist interactions in psychotherapy. *Poster presented at the Graduate Student Research Fair, College of Education, University of Utah, Salt Lake City, UT.*

**Imel, Z. E.**, & Soma, C. S. (2015, March). Computational Psychotherapy Research. *Presentation to Learning Sciences Program, Department of Educational Psychology, University of Utah, Salt Lake City, UT.*

Melling, A., & **Imel, Z.E.** (November, 2014). The 80/20 Problem at the UCC: "Brief Treatment" and the Utilization of Services in the University Counseling Center. *Presentation to University Counseling Center Staff Development Seminar. University of Utah, Salt Lake City, Utah.*

- Imel, Z.E.** (October, 2014). Empathy and the Machine. *Data Group Meeting, School of Computing, University of Utah. Salt Lake City, Utah.*
- Imel, Z.E.** (April, 2014). Towards machine generated therapist feedback. *Didactics for Psychology Interns, VA Salt Lake City Healthcare System. Salt Lake City, Utah.*
- Imel, Z.E.** (April, 2014). Computational psychotherapy research: Implications of scaling up the evaluation of client-therapist interactions. *Presentation to University Counseling Center Staff Development Seminar. University of Utah, Salt Lake City, Utah.*
- Imel, Z.E.** (December, 2012). Visualizing the state of psychotherapy research. *Invited address to clinical research conference Clinical Psychology Program, Brigham Young University, Provo, Utah.*
- Barco, J., & **Imel, Z.E.** (April, 2012). The effects of self-defense training on self-efficacy and self-esteem: A meta-analysis. *Poster presented at Graduate Student Research Fair, College of Education, University of Utah, Salt Lake City, UT.*
- Imel, Z.E.** (2012, May). An introduction to 'R' for social scientists. *Invited training given to Learning Sciences Faculty at University of Utah. Salt Lake City, UT.*
- Imel, Z.E.** (2011, March). The role of the therapist in the process and outcome of psychotherapy. *Invited lecture given to VA Puget Sound Pre-doctoral clinical psychology interns. Seattle, WA.*
- Imel, Z.E.** (2011, January). Determining the most effective PTSD treatments. *Invited lecture given to VISN 20 Mental Illness Research, Education, and Clinical Center, Veterans Administration VA Puget Sound Seattle, WA.*
- Imel, Z.E.** (2009, March). The effect of trauma focus on the effectiveness of PTSD treatments. *Invited lecture given to PTSD Outpatient Clinic, VA Puget Sound. Seattle, WA.*
- Imel, Z.E.** (2007, December). Therapist effects: An empirical perspective on multicultural competence. *Invited lecture given to evidence based practice seminar for pre-doctoral interns at University of Wisconsin-Madison, Counseling and Consultation Services, Madison, WI.*
- Imel, Z.E.** (2007, July). Myth and the healing context. *Invited lecture to research methods course for masters in counseling psychology program at University of Wisconsin-Madison, Madison, WI.*
- Imel, Z.E.** (2006, October). Common factors research in psychotherapy. *Invited lecture to theories of counseling and psychotherapy course for masters in counseling psychology program at University of Wisconsin-Madison, Madison, WI.*
- Imel, Z.E., & MacCoon, D.** (2005, December). A proposed psychology of healing: Implications for integrative medicine. *Invited lecture to the staff of Integrative Medicine at the University of Wisconsin, Madison, WI.*
- McKay, K.M., **Imel, Z.E., & Wampold, B.E.** (2005, November). Psychiatrist effects in the NIMH TDCRP study. *Paper presented at the Madison chapter of the Society for Psychotherapy Research, Madison, WI.*
- Imel, Z.E.** (2005, June). Common factors research in psychotherapy: Implications for training. *Invited lecture given to Theories of Psychotherapy Course for the Masters in Family Therapy program students at Edgewood College, Madison, WI.*

McKay, K.M., **Imel, Z.E.**, & Wampold, B.E. (2005, March). Psychiatrist effects in the NIMH TDCRP study. *Poster presented at the annual Wisconsin Psychological Association Conference*. Middleton, WI.

**Imel, Z.E.** (2004, December). Explanation and 'truth' in psychotherapy. *Invited lecture to the Behavioral Research Seminar at the Wisconsin Psychiatric Institute and Clinics*, Madison, WI.

Nichols, G., Huffman, K., Moore, L., Sommerfeld, A.K., Fillingame, L., Benish, S., & **Imel, Z.E.** (March, 2004). Model of professional multicultural development. *Paper presented at University of Wisconsin-Madison Social Justice Conference*, Madison, WI.

Christenson, T.K., & **Imel, Z.E.** (2002, November). Narrative/Storytelling in career counseling. *Paper presented at the University of Missouri Career Center Conference*, Columbia, MO.

**Imel, Z.E.**, Lomax, S.K., & Butner, L. (1999, November). Effects of long-term marijuana use on gestalt impaired stroop effect. *Paper presented at the Mid-American Undergraduate Psychology Research Conference*, Charleston, ILL.

## **COURSES TAUGHT**

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| 2013-2015   | Department of Psychiatry, PGY 3-4. Psychotherapy Research Seminar.  |
| 2013-2015   | EDPS 7860: Emotion and Cognition, University of Utah  |
| 2011-2014   | EDPS 6200; Counseling Theories, University of Utah  |
| 2012, 2014  | EDPS 6210; Counseling Skills, University of Utah  |
| 2012-2014   | EDPS 7600; Adult Diagnostic Psychopathology, University of Utah   |
| 2012, 2015  | EDPS 7430; Research in Counseling Psychology, University of Utah  |
| Spring 2012 | EDPS 7710; Practicum in Counseling Psychology, University of Utah   |
| 2011-2014   | ED PS 6860; Research Seminar, University of Utah  |
| Summer 2012 | PSY 4800; Research Experience, University of Utah   |
| 2009 - 2011 | Facilitator, PTSD Clinical Trials Journal Club, VA Puget Sound Healthcare System – Seattle Division.  |
| Summer 2008 | Teaching Assistant, Research Methods II: Multiple Regression and Correlation, Department of Counseling Psychology, University of Wisconsin-Madison. |
| Fall 2006   | Teaching Assistant, Theories of Counseling and Psychotherapy, Department of Counseling Psychology, University of Wisconsin-Madison.                 |
| 2003-2005   | Teaching Assistant, Theory and Practice of Interviewing, Department of Counseling Psychology, University of Wisconsin-Madison.                      |
| Fall 2003   | Teaching Assistant, Career Explorations, Department of Counseling Psychology, University of Missouri-Columbia.                                      |

## **SERVICE**

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- 2015-Present *Member*, University Research Committee, University of Utah, Salt Lake City, Utah.
- 2012-Present *Member*, Diversity Committee, Department of Educational Psychology, University of Utah, Salt Lake City, Utah.
- 2012-Present *Member*, Faculty Grant Review Committee, College of Education, University of Utah, Salt Lake City, Utah.
- 2012-Present *Member*, Center for the Advancement of Technology in Education (CATE), College of Education, University of Utah, Salt Lake City, Utah.
- 2012-2014 *Chair*, Section for the Promotion of Psychotherapy Science (Division 17; Counseling Psychology), American Psychological Association.
- 2012-Present *Board Member*, Section for the Promotion of Psychotherapy Science (Division 17; Counseling Psychology), American Psychological Association.
- 2011-Present *Staff Associate*, University Counseling Center, University of Utah

## REVIEWING/EDITORIAL

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### Editorial

- 2013-Present *Associate Editor*, Psychotherapy  
 2014-Present *Consulting Editor*, Journal of Counseling Psychology  
 2010-2013 *Consulting Editor*, Psychotherapy

### Ad hoc

- 2015 *Ad hoc Reviewer*, Group Dynamics: Theory, Research, & Practice  
 2015 *Ad hoc Reviewer*, Interaction Studies  
 2009-2015 *Ad hoc Reviewer*, Psychotherapy Research  
 2010, 2015 *Ad hoc Reviewer*, Journal of Consulting and Clinical Psychology  
 2015 *Ad hoc Reviewer*, Frontiers in Psychology  
 2015 *Ad hoc Reviewer*, Psychology of Addictive Behaviors  
 2015 *Ad hoc Reviewer*, IEEE Transactions on Affective Computing  
 2015 *Ad hoc Reviewer*, Clinical Psychology Review  
 2014 *Ad hoc Reviewer*, Military Psychology  
 2014 *Ad hoc Reviewer*, Annals of Internal Medicine  
 2014 *Ad hoc Reviewer*, Journal of Substance Abuse Treatment  
 2010-2013 *Ad hoc Reviewer*, Journal of Counseling Psychology  
 2013 *Ad hoc Reviewer*, Clinical Psychology: Research and Practice  
 2012 *Ad hoc Reviewer*, Psychological Assessment  
 2011 *Ad hoc Reviewer*, Counseling and Psychotherapy  
 2009 *Ad hoc Reviewer*, Addiction  
 2009 *Ad hoc Reviewer*, Psychology and Psychotherapy: Theory, Research and Practice  
 2009 *Ad hoc Reviewer*, Training & Education in Professional Psychology  
 2008 *Ad hoc Reviewer*, American Journal of Orthopsychiatry

### Conference

- 2016 *Program Committee*, North American Chapter of the Association for Computational Linguistics: Human Language Technologies – Computational Linguistics and Clinical Psychology Workshop.