PAYTON J. JONES

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EDUCATION

Experimental Psychopathology, PhD   2016-2021 | Cambridge, MA
Harvard University

- National Science Foundation Graduate Research Fellow
- Dissertation - The Neurotic Treadmill: Decreasing Adversity, Increasing Vulnerability

Psychology, MA   2016-2018 | Cambridge, MA
Harvard University

- Thesis - Bridge Centrality: A Network Approach to Comorbidity

Psychology, BS   2011-2016 | Provo, UT
Brigham Young University

- GPA: 4.0, Summa Cum Laude
- GRE: Verbal 169 (99%), Quantitative 168 (95%), Writing 5.5 (98%)

PROFESSIONAL EXPERIENCE

Senior Data Scientist   March, 2021 - Present | Seattle, WA
Pluralsight

- Built production level deep learning systems scaled to more than 10 million users
- Implemented ensemble learning to extend personalized recommendations to an additional 44.3% of users, corresponding with a 25.4% increase in clickthrough rate
- Provided leadership in experiment design and data communication, jointly building key metrics with leadership

Data Scientist   July, 2020 - March, 2021 | Boston, MA
Pluralsight

- Develop algorithmic solutions for adaptive skill assessment, recommendation engines, and personalized learning
- Developed scalable analytic solutions, synthesized results, and presented to product leadership
- Created novel algorithms to evaluate the reliability and validity of skill assessments

Data Scientist   November, 2019 - December, 2020 | Cambridge, MA
Hyka Therapeutics

- Manage data structures, collection, and strategic data analysis for a quickly-growing health startup
- Develop psychometric and digital phenotyping algorithms for digital therapeutics

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- Design a smartphone-based data visualization platform for users

PEER-REVIEWED JOURNAL ARTICLES

37. **Jones, P. J.**, Levari, D. E., Bellet, B. W., & McNally, R. J. (2022). Exposure to descriptions of traumatic events narrows one's concept of trauma. *Journal of Experimental Psychology: Applied.* https://doi.org/10.1037/xap0000389

36. **Jones, P. J.** & McNally, R. J. (2022). Does broadening one's concept of trauma undermine resilience? *Psychological Trauma: Theory, Research, Practice, and Policy. 14,* S131-S139. https://doi.org/10.1037/tra0001063

35. **Jones, P. J.** (2021). What's in a trauma? Using machine learning to unpack what makes an event traumatic. *Journal of Affective Disorders. 294,* 769-775. https://doi.org/10.1016/j.jad.2021.07.066

34. **Jones, P. J.**, Bellet, B. W., Levari, D. E., & McNally, R. J. (2021). Psychological response data on the traumatic nature of 600 written events. *Journal of Open Psychology Data. 9,* 3. http://doi.org/10.5334/jopd.46

33. Goh, P. K., Martel, M. M., **Jones, P. J.**, Bansal, P. S., Eng, A. G., Elkins, A. R., & Barkley, R. A. (2021). Clarifying relations between ADHD and functional impairment in adulthood: Utilization of network and machine learning approaches. *Assessment.* https://doi.org/10.1177/10731911211050921

32. Guineau, M. G., **Jones, P. J.**, Bellet, B. W., & McNally, R. J. (2021). A network analysis of DSM-5 posttraumatic stress disorder symptoms and trauma centrality. *Journal of Traumatic Stress. 34,* 654-664. https://doi.org/10.1002/jts.22664

31. Wasil, A., Gillespie, S., Park, S. J., Venturo-Conerly, K. E., Osborn, T. L., DeRubeis, R., Weisz, J. R., & **Jones, P. J.** (2021). Which symptoms of depression and anxiety are most strongly associated with happiness? A network analysis of Indian and Kenyan adolescents. *Journal of Affective Disorders. 295,* 811-821. https://doi.org/10.1016/j.jad.2021.08.087

30. Peters, J., Bellet, B. W., **Jones, P. J.**, Wu, G. W. Y., Wang, L., & McNally, R. J. (2021). Posttraumatic stress or posttraumatic growth? Using network analysis to explore the relationships between coping styles and trauma outcomes. *Journal of Anxiety Disorders.* https://doi.org/10.1016/j.janxdis.2021.102359

29. **Jones, P. J.**, Mair, P., Simon, T., & Zeileis, A. (2020). Network trees: A method for recursively partitioning covariance structures. *Psychometrika. 85,* 926-945. https://doi.org/10.1007/s11336-020-09731-4

28. Moriarity, D., Bart, C., Stumper, A., **Jones, P. J.**, & Alloy, L. (2020). Mood symptoms and impairment due to substance use: A network perspective on comorbidity. *Journal of Affective Disorders.* https://doi.org/10.1016/j.jad.2020.09.086

27. **Jones, P. J.**, Williams, D. R., & McNally, R. J. (2020). Sampling variability is not non-replication: A Bayesian reanalysis of Forbes, Wright, Markon, & Krueger. *Multivariate*

Behavioral Research. https://doi.org/10.1080/00273171.2020.1797460

26. Iverson, G. L., **Jones, P. J.**, Karr, J. E., Maxwell, B., Zafonte, R., Berkner, P. D., & McNally, R. J. (2020). Network structure of physical, cognitive, and emotional symptoms at preseason baseline in student athletes with attention-deficit hyperactivity disorder. *Archives of Clinical Neuropsychology.* https://doi.org/10.1093/arclin/acaa030

25. Peckham, A. D., **Jones, P. J.**, Snorrason, I., Wessman, I., Björgvinsson, T., & Beard, C. (2020). Age-related changes in borderline personality disorder symptom networks in a transdiagnostic sample. *Journal of Affective Disorders.* https://doi.org/10.1016/j.jad.2020.05.111

24. Smith, A. R., Forrest, L. N., Duffy, M. E., **Jones, P. J.**, Joiner, T. E., & Pisetsky, E. M. (2020). Identifying bridge pathways between eating disorder symptoms and suicidal ideation across three samples. *Journal of Abnormal Psychology.* https://doi.org/10.1037/abn0000553

23. Iverson, G. L., **Jones, P. J.**, Karr, J. E., Maxwell, B., Zafonte, R., Berkner, P. D., & McNally, R. J. (2020). Architecture of physical, cognitive, and emotional symptoms at preseason baseline in adolescent student athletes with a history of mental health problems. *Frontiers in Neurology. 11*, 175. https://doi.org/10.3389/fneur.2020.00175

22. **Jones, P. J.**, Bellet, B. W., & McNally, R. J. (2020). Helping or harming? The effect of trigger warnings on individuals with trauma histories. *Clinical Psychological Science.* https://doi.org/10.1177/2167702620921341

21. Bellet, B. W., **Jones, P. J.**, Meyersburg, C., Brenneman, M., Morehead, K., & McNally, R. J. (2020). Trigger warnings and resilience in college students: A preregistered replication and extension. *Journal of Experimental Psychology: Applied. 26*, 717-723. https://doi.org/10.1037/xap0000270

20. Bellet, B. W., **Jones, P. J.**, & McNally, R. J. (2020). Self-triggering? An exploration of individuals who seek reminders of trauma. *Clinical Psychological Science.* https://doi.org/10.1177/2167702620917459

19. Lefevor, G. T., Park, S. Y., Acevedo, M. J., & **Jones, P. J.** (2020). Sexual orientation complexity and psychosocial/health outcomes. *Journal of Homosexuality.*

18. Wasil, A., Venturo-Conerly, K. Shinde, S., Patel, V., & **Jones, P. J.** (2020). Applying network analysis to understand depression and substance use in Indian adolescents. *Journal of Affective Disorders. 265*, 278-286. https://doi.org/10.1016/j.jad.2020.01.025

17. Summers, B. J., Aalbers, G., **Jones, P. J.**, McNally, R. J., Phillips, K. A., & Wilhelm, S. (2020). A network perspective on body dysmorphic disorder and major depressive disorder. *Journal of Affective Disorders. 262*, 165-173. https://doi.org/10.1016/j.jad.2019.11.011

16. Robinaugh, D. R., Brown, M. L., Losiewicz, O., **Jones, P. J.**, Marques, L., & Baker, A. W. (2020). Toward a precision psychiatry approach to treating anxiety disorders with

ecological momentary assessment: The example of panic disorder. *General Psychiatry. 33*, e100161. https://doi.org/10.1136/gpsych-2019-100161

15. Meier, M., Kossakowski, J. J., **Jones, P. J.**, Riemann, B. C., Kay, B., & McNally, R. J. (2020). Obsessive-compulsive symptoms in eating disorders: A network investigation. *International Journal of Eating Disorders. 53*(3), 362-371. https://doi.org/10.1002/eat.23196

14. Mancini, A. D., Littleton, H. L., Grills, A. E., & **Jones, P. J.** (2019). PTSD near and far: Symptom networks from two to 12 months after the Virginia Tech campus shootings. *Clinical Psychological Science. 7*(6), 1340-1354. https://doi.org/10.1177/2167702619859333

13. Elliott, H., **Jones, P. J.**, & Schmidt, U. (2019). Central symptoms predict post-treatment outcomes and clinical impairment in anorexia nervosa: A network analysis. *Clinical Psychological Science.* https://doi.org/10.1177/2167702619865958

12. **Jones, P. J.**, Ma, R., & McNally, R. J. (2019). Bridge centrality: A network approach to understanding comorbidity. *Multivariate Behavioral Research.* https://doi.org/10.1080/00273171.2019.1614898

11. **Jones, P. J.**, Mair, P., Kuppens, S., & Weisz, J. R. (2019). An upper limit to youth psychotherapy benefit? A meta-analytic copula approach to psychotherapy outcomes. *Clinical Psychological Science.* https://doi.org/10.1177/2167702619858424

10. **Jones, P. J.**, Mair, P., & McNally, R. J. (2018). Visualizing psychological networks: A tutorial in R. *Frontiers in Psychology. 9*, 1742. https://doi.org/10.3389/fpsyg.2018.01742

9. Wang, S. B., **Jones, P. J.**, Dreier, M., Elliott, H., & Grilo, C. M. (2018). Core psychopathology of treatment-seeking patients with binge-eating disorder: A network analysis investigation. *Psychological Medicine. 49*(11), 1923-1928. https://doi.org/10.1017/s0033291718002702

8. Bellet, B. W., **Jones, P. J.**, & McNally, R. J. (2018). Trigger warning: Empirical evidence ahead. *Journal of Behavior Therapy and Experimental Psychiatry. 61*, 134-141. https://doi.org/10.1016/j.jbtep.2018.07.002

7. **Jones, P. J.**, Park, S.Y., & Lefevor, G. T. (2018). Contemporary college student anxiety: The role of academic distress, financial stress, and support. *Journal of College Counseling. 21*, 252-264. https://doi.org/10.1002/jocc.12107

6. Heeren, A., **Jones, P.J.**, & McNally, R.J. (2018). Mapping network connectivity among symptoms of social anxiety and comorbid depression in people with social anxiety disorder. *Journal of Affective Disorders. 228*, 75-82. https://doi.org/10.1016/j.jad.2017.12.003

5. Levinson, C. A., Brosof, L. C., Vanzhula, I. Christian, C., **Jones, P. J.**, Rodebaugh, T. L., Langer, J. K., White, E. K., Warren, C., Weeks, J. W., Menatti, A., Lim, M. H., & Fernandez, K. C. (2018). Social anxiety and eating disorder comorbidity and underlying vulnerabilities: Using network analysis to conceptualize comorbidity. *International Journal of Eating Disorders 51*(7), 693-709. https://doi.org/10.1002/eat.22890

4. Forrest, L. N., **Jones, P. J.**, Ortiz, S. N., & Smith, A. (2018). Core psychopathology in anorexia nervosa and bulimia nervosa: A network analysis. *International Journal of Eating*

Disorders. 51(7), 668-679. https://doi.org/10.1002/eat.22871

3. Bellet, B. W., **Jones, P. J.**, Neimeyer, R. A., & McNally, R. J. (2018). Bereavement outcomes as causal systems: A network analysis of the co-occurrence of complicated grief and posttraumatic growth. *Clinical Psychological Science. 6*(6), 797-809. https://doi.org/10.1177/2167702618777454

2. **Jones, P. J.**, Mair, P., Mugno, B. L., Riemann, B. C. & McNally, R. J. (2018). A network perspective on comorbid OCD and depression in adolescents. *Journal of Anxiety Disorders. 53*, 1-8. https://doi.org/10.1016/j.janxdis.2017.09.008

1. **Jones, P. J.**, Heeren, A., & McNally, R.J. (2017). Commentary: A network theory of mental disorders. *Frontiers in Psychology. 8*, 1305. https://doi.org/10.3389/fpsyg.2017.01305

GRANTS & FELLOWSHIPS

National Science Foundation, Graduate Research Fellowship, $138,000   2018-2021

Mind, Brain, & Behavior Initiative, Graduate Student Awards (2), $5,115   2018

Harvard University, Talley Award, $3,500,   2018

Harvard University, Karen Stone Fellowship, $64,000   2016-2018

STATISTICAL SOFTWARE

3. **Jones, P. J.**, Simon, T., Zeileis, A., & Mair, P. (2019). networktree: Recursive partitioning of network models. *R package version 1.0.1.* https://CRAN.R-project.org/package=networktree

2. van Borkulo, C., Epskamp, S., & **Jones, P. J.** (2019). NetworkComparisonTest: Statistical comparison of two networks based on three invariance measures. *R package version 2.2.1.* https://CRAN.R-project.org/package=NetworkComparisonTest

1. **Jones, P. J.** (2017). networktools: Assorted tools for identifying important nodes in networks. *R package version 1.5.0.* https://CRAN.R-project.org/package=networktools

ACADEMIC PRESENTATIONS

* = panel chair

22. Bridgland, V., **Jones, P. J.**, & Bellet, B. W. (2022). Helping or harming? A trigger warning meta-analysis. Symposium at the Psychonomic Society 63rd Annual Meeting, Boston, MA.

21. **Jones, P. J.***, Williams, D. R., & McNally, R. J. (2020). Evaluating the sampling variability and replicability of network comorbidity. Symposium at the Association for Behavioral and Cognitive Therapies (ABCT) Convention, Virtual Convention.

20. **Jones, P. J.** (2019). Trigger warnings and the neurotic treadmill: Does it matter if we expand the definition of violence? Symposium at the Association for Behavioral and Cognitive Therapies (ABCT) Convention, Atlanta, GA.

19. **Jones, P. J.** (2019). Sticks and stones: Investigating the belief that words can harm. Presentation at the Annual Meeting of the Foundation of Individual Rights in Education, Boston, MA.

18. Smith, A. R., Forrest, L. N., Duffy, M. **Jones, P. J.**, Pisetsky, E. M. (2019). Using network analysis to identify bridge symptoms between eating disorders and suicidality. Poster at the Annual Meeting of the Eating Disorder Research Society in Chicago, IL.

17. Vanzhula, I. A., Christian, C., **Jones, P. J.**, Brosof, L. C., Forbush, K., Smith, K., Tregarthen, J., Farrell, N. A., & Levinson, C. A. (2019). *Replicability of eating disorder psychological networks in five samples: Conceptual and methodological considerations*. Poster at the Annual Meeting of the Eating Disorder Research Society in Chicago, IL.

16. Meier, M., Kossakowski, J. J., **Jones, P. J.**, Riemann, B. C., & McNally, R. J. (2019). *The network structure of obsessive-compulsive symptoms in patients with eating disorders*. Poster at the World Congress of Behavioural and Cognitive Therapies, Berlin, Germany.

15. **Jones, P. J.***, Heeren, A., & McNally, R. J. (2019). *Beyond symptoms: Why diagnostic criteria are not enough for network analysis*. Symposium at the International Conference for Psychological Science, Paris, France.

14. **Jones, P. J.***, Ma, R., & McNally, R. J. (2019). *Depression comorbidity: Applying bridge centrality in networks to understand overlap with other mental disorders*. Symposium at the International Conference for Psychological Science, Paris, France.

13. **Jones, P. J.***, Simon, T., Zeileis, A., & Mair, P. (2019). *Breaking the assumption of group homogeneity in networks: partitioning networks with machine learning*. Symposium at the International Conference for Psychological Science, Paris, France.

12. **Jones, P. J.**, McNally, R. J. (2019). *Do the ever-expanding definitions of violence and trauma contribute to PTSD? Evidence for the trauma treadmill*. Symposium at the International Conference for Psychological Science, Paris, France.

11. Bellet, B. W., **Jones, P. J.**, & McNally, R. J. (2019). *Trigger warning: Empirical evidence ahead*. Symposium at the International Conference for Psychological Science, Paris, France.

10. **Jones, P. J.***, Elliott, H., & Schmidt, U. (2018). *Anorexia core symptoms predict poor prognosis: A network analysis in a randomized-controlled trial*. Symposium at the Association for Behavioral and Cognitive Therapies (ABCT) Convention, Washington, DC.

9. **Jones, P. J.**, Simon, T., Zeleis, A., & Mair, P. (2018). Model-based recursive partitioning of network models: A statistical learning approach to network analysis. Symposium at the Association for Behavioral and Cognitive Therapies (ABCT) Convention, Washington, DC.

8. Summers, B. J., Aalbers, G, **Jones, P. J.**, McNally, R. J., Phillips, K. A., Wilhelm, S., (2018). *A network perspective on body dysmorphic disorder and major depressive disorder*. Symposium at the Association for Behavioral and Cognitive Therapies (ABCT) Convention, Washington, DC.

7. **Jones, P. J.**, & McNally, R. J. (2018). *The trauma treadmill: A paradox of PTSD vulnerability*. Symposium at the Heterodox Psychology Conference, Orange, CA.

6. Bellet, B. W., **Jones, P. J.**, & McNally, R. J. (2018). *Trigger warning: Empirical evidence ahead*. Symposium at the Heterodox Psychology Conference, Orange, CA.

5. **Jones, P. J.**, Ma, R., & McNally, R. J. (2018). *Bridge centrality: Identifying bridge symptoms in psychopathology networks*. Symposium at the Association for Psychological Science Conference, San Francisco, CA.

4. Bellet, B. W., **Jones, P. J.**, Neimeyer, R. A., & McNally, R. J. (2018). *Bereavement outcomes as causal systems: A network analysis of the co-occurrence of complicated grief and posttraumatic growth*. Symposium at the Association for Psychological Science Conference, San Francisco, CA.

3. **Jones, P. J.**, McNally, R.J., Mair, P., Mugno, B.L., Riemann, B.C. (2017). *Bayesian networks: A directed-acyclic graph approach to comorbid OCD and depression*. Poster presentation at the Association for Behavioral and Cognitive Therapies, San Diego, CA.

2. **Jones, P. J.**, McNally, R.J., Mair, P., Mugno, B.L., Riemann, B.C. (2017). *A network perspective on comorbid OCD and depression in adolescents*. Symposium at the Association for Psychological Science Conference, Boston, MA.

1. **Jones, P. J.**, Heeren, A., McNally, R. J. (2017). *Casting a wider net: Towards a complete network model of psychopathology*. Poster presentation at the Harvard University Mind, Brain, and Behavior Showcase.

JOURNAL ARTICLES UNDER REVIEW

2. **Jones, P. J.**, Bridgland, V., & Bellet, B. W. (2023). Content warnings reduce aesthetic appreciation of visual art. https://psyarxiv.com/6h5k8/

1. Bridgland, V., **Jones, P. J.**, & Bellet, B. W. (2023). A meta-analysis of the effects of trigger warnings, content warnings, and content notes. https://osf.io/qav9m/

GRANT REVIEWER FOR:
- NWO (Netherlands Organisation for Scientific Research)

JOURNAL REVIEWER FOR:
- Psychological Review
- JAMA Psychiatry
- Psychometrika
- Psychological Methods
- Clinical Psychological Science
- Psychotherapy and Psychosomatics
- Psychological Medicine
- Emotion
- Behaviour Research and Therapy

- Journal of Traumatic Stress
- Journal of Affective Disorders
- Journal of Child Psychology and Psychiatry
- Perspectives in Psychological Science
- Psychological Trauma: Theory, Research, Practice, and Policy
- Frontiers in Psychology
- Archives of Suicide Research
- International Journal of Methods in Psychiatric Research
- European Journal of Psychotraumatology
- Journal of Rational-Emotive & Cognitive Behavior Therapy
- SAGE Open

CLINICAL EXPERIENCE

Student Therapist   May 2019 - Present | Boston, MA
Center for Anxiety and Traumatic Stress Disorders, Massachusetts General Hospital

- Deliver individual therapy to individuals with traumatic stress and anxiety disorders
- Trained in delivering evidence-based protocols including the UP, PE, CPT, and CBT for SAD & panic
- Administer and interpret diagnostic assessments (SCID, MINI)

Student Therapist   Aug. 2018 - May 2019 | Belmont, MA
Behavioral Health Partial Hospitalization Program, McLean Hospital

- Provided care to a diverse patient base with wide degrees & forms of psychopathology in an intensive setting
- Performed diagnostic assessments (MINI) and formulate case conceptualizations
- Led six different DBT & CBT-based therapy groups

Student Therapist   June 2017 - Aug. 2018 | Belmont, MA
Obsessive-Compulsive Disorder Institute, McLean Hospital

- Provided evidence-based individual therapy for obsessive-compulsive and anxiety disorders
- Administered psychological assessments and wrote comprehensive reports (SCID, PID, MoCA)
- Led group therapy sessions focused on managing intrusive thoughts

Career Counseling Paraprofessional   May 2014- June 2015 | Provo, UT
Brigham Young University Career and Counseling Center

- Administered career counseling to more than 100 students, both supervised and unsupervised in a peer mentor role
- Received training under a licensed career counselor

TEACHING & MENTORING EXPERIENCE

Teaching Fellow: Psychometrics in R (Graduate)   Aug. 2019 - Present | Cambridge, MA
Harvard University

- Taught sections of an advanced graduate-level course in psychometrics
- Designed and graded problem sets in R
- Taught tutorials on IRT, PCA, multidimensional scaling, network analysis, optimal scaling, and more

Teaching Fellow: Abnormal Psychology   Jan. 2019 - May 2019 | Cambridge, MA
Harvard University

- Instructed sections of an undergraduate course in Abnormal Psychology
- Taught sections on depression, anxiety disorders, trauma, behavioral addiction, and suicide

Psychology Concentration Advisor   Apr. 2017 - Apr. 2018 | Cambridge, MA
Harvard University

- Provided academic and career counseling to undergraduate psychology students
- Worked in collaboration with professional advisers and student advocacy groups

International School Psychology Intern   Apr. 2015- Aug., 2015 | Lima, Peru
Colegio Brigham Young School

- Performed one-on-one interventions for students suffering from attention and learning disabilities
- Crossed cultural barriers by immersion in the Peruvian educational system, communicating exclusively in the Spanish language

Teaching Assistant   May, 2014- June, 2015 | Provo, UT
Brigham Young University, Department of Student Development

- Taught an undergraduate career development course
- Provided personalized feedback for personality and career testing

Peer Mentor   April, 2014- September, 2014 | Provo, UT
Brigham Young University Freshman Mentoring

- Gave personal counseling and assistance to 51 new university students in a peer mentor role
- Provided leadership in student orientation and other large group activities

RESEARCH EXPERIENCE

Graduate Student   September, 2016 - May, 2021 (exp.) | Cambridge, MA
Harvard University, Dr. Richard McNally

- Research the etiology of psychopathology via network analysis and other quantitative approaches

- Collaborate with leading scholars to advance the field of clinical psychology
- Examine cognitive and social vulnerabilities to emotional disorders

Research Assistant December. 2015- August, 2016 | Provo, UT
Brigham Young University, Dr. Tyler Lefevor

- Published first-authored peer-reviewed articles and presented at conferences on the topics of positive psychology interventions, sexuality, and anxiety in college students
- Wrote literature reviews and collaborated on multiple projects with peers
- Conducted and interpreted statistical analyses

Research Assistant January, 2015- August, 2016 | Provo, UT
Brigham Young Univeristy, Dr. Bruce Brown, Associate Chair

- Analyzed statistical data using SAS, SPSS, R, and STATA
- Performed a wide variety of psychometric and regression-based analyses
- Utilized and evaluated statistical techniques for the prediction of ethical behavior

Research Assistant May, 2014- June, 2015 | Provo, UT
Brigham Young Univeristy, Alberto Puertas

- Assisted in research concerning emerging career counseling models
- Wrote new curriculum for a career development course focusing on narrative approaches to career decision

LANGUAGE & INTERNATIONAL EXPERIENCE

Brazilian Portuguese July 2011- Present
Bilingual Proficiency

- Lived in Espirito Santo, Brazil from December 2011 to October 2013
- Lived without English contact from November 2012 to October 2013
- Mastery Level Certification from the American Council for the Teaching of Foreign Languages

Spanish April 2015- Present
Professional Proficiency

- Lived in Lima, Peru from April 2015 to August 2015
- Presented an academic presentation at a university conference in Lima, Peru
- Presented an academic presentation to the Peruvian consulate of Utah