

## Education

- 2013 **Doctor of Philosophy**, *Linguistics*, University of Delaware, Newark, DE.  
Specializations in phonetics, phonology, and psycholinguistics.  
Dissertation *Crosslinguistic Perception of Pitch in Language and Music*.
- 2009 **Master of Arts**, *Linguistics*, University of Delaware, Newark, DE.  
2005 **Bachelor of Arts**, *Cognitive Science*, Northwestern University, Evanston, IL.  
2005 **Certificate**, *Music*, Northwestern University, Evanston, IL.
- 2005–2007 **Graduate Student**, Georgetown University, Washington, DC.  
Spanish language and graduate neuroscience coursework.

## Appointments

- 2013– **Assistant Professor of Psychology**, The Pennsylvania State University, Brandywine.
- 2012–2013 **ACM-Mellon Postdoctoral Fellow of Creativity**, *Department of Psychology*, Lawrence Univ.  
Mentor Terry Gottfried
- 2011–2012 **Research Fellow**, *Center for Science, Ethics, and Public Policy*, University of Delaware.  
Advisor Thomas Powers
- 2007–2009 **Laboratory Manager**, *Experimental Psycholinguistics Laboratory*, University of Delaware.  
Advisor Arild Hestvik
- 2005–2007 **Laboratory Manager**, *Laboratory for Computational Cognitive Neuroscience*, Georgetown Univ.  
Advisor Maximilian Riesenhuber
- 2004–2005 **Research Assistant**, *Project on Child Development*, Northwestern University.  
Advisors Christopher Kennedy & Jeffrey Lidz

## Other Affiliations

- 2009–2012 **Phonology and Phonetics Laboratory**, University of Delaware.  
2009–2012 **Science, Ethics, and Public Policy Research Group**, University of Delaware.

## Publications

### Journal Articles

- submitted **Bradley, E.D.** Phonetic dimensions of tone language effects on musical melody perception.
- submitted **Bradley, E.D.** A comparison of stimulus variability and task effects in tone and melody perception.
- 2013 **Bradley, E.D.** Pitch perception in lexical tone and melody. *Reviews of Research in Human Learning and Music*, 1. doi: 10.6022/journal.rrhlm.2013002
- 2012 Hestvik, A., **Bradley, E.**, & Bradley, C. Working memory effects of gap-predictions in normal adults: An event-related potentials study. *Journal of Psycholinguistic Research*, 41(6), 425–438. doi: 10.1007/s10936-011-9197-8
- 2007 Jiang, X., **Bradley, E.**, Rini, R., Zeffiro, T., Vanmeter, J., & Riesenhuber, M. Categorization training results in shape- and category-selective human neural plasticity. *Neuron*, 53(6), 891–903. doi: 10.1016/j.neuron.2007.02.015

### Proceedings

- 2016 **Bradley, E.D.** & Van Hell, J.G. Effects of musical ear training on lexical tone perception. *Linguistic Society of America Annual Meeting*, Washington, DC. In *Proceedings of the Linguistic Society of America*.
- 2015 Tokunaga, K., Young, C., Ezzedine, L., Akimenko, E., Schmid, H.E. & **Bradley, E.D.** Pitch normalization in speech and music. *Tri-College Undergraduate Linguistics Conference*, Haverford, PA.
- 2012 **Bradley, E.D.** Tone language experience enhances sensitivity to melodic contour. *Linguistic Society of America Annual Meeting*, Portland, OR. *LSA Annual Meeting Extended Abstracts 2012*.
- 2010 **Bradley, E.D.** An investigation of the acoustic vowel space of singing. *Proceedings of the 11<sup>th</sup> International Conference on Music Perception and Cognition*, Seattle, WA.
- 2010 **Bradley, E.D.** & Hestvik, A. Testing the sensory hypothesis of the early left anterior negativity with auditory stimuli. *Linguistic Society of America Annual Meeting*, Baltimore, MD. *LSA Annual Meeting Extended Abstracts 2010*.
- 2006 Jiang, X., **Bradley, E.**, Rini, R., Zeffiro, T., Vanmeter, J., & Riesenhuber, M. Categorization training leads to sharpening tuning of shape-specific tuning in the lateral occipital cortex and learning of category-selective representations in the prefrontal cortex. *Vision Sciences Society Annual Meeting*, Sarasota, FL. *Journal of Vision*, 6(6), 620a. doi: 10.1167/6.6.620
- 2004 Syrett, K., **Bradley, E.**, Kennedy, C., & Lidz, J. Shifting standards: children's understanding of gradable adjectives. In Deen, K.U., Nomura, J., Schulz, B., & Schwartz, B.D. (Eds.), *The Proceedings of the Inaugural Conference on Generative Approaches to Language Acquisition—North America*. *University of Connecticut Occasional Papers in Linguistics*, 4, 353–364.

## Reference Articles

- 2014 **Bradley, E.D.** Tone Language. In Thompson, W.F. (Ed.), *Music in the Social and Behavioral Sciences: An Encyclopedia*. SAGE Reference. doi: 10.4135/9781452283012.n397
- 2014 **Bradley, E.D.** Transfer Effects. In Thompson, W.F. (Ed.), *Music in the Social and Behavioral Sciences: An Encyclopedia*. SAGE Reference. doi: 10.4135/9781452283012.n401

## Reviews

- 2013 **Bradley, E.D.** Review of *Origins of sound change: Approaches to phonologization*, A.C.L. Yu (Ed.). *The LINGUIST List* 24.3282.

## Presentations

### Conference Presentations

- 2016 **Bradley, E.D.** Stimulus variability effects on lexical tone and musical interval perception. *Sound to Word in Bilingual and Second Language Speech Perception*, Iowa City, IA.
- 2015 Young, C.E., Brown, J., Ezzedine, L., Tokunaga, K., Dolley, M., & **Bradley, E.D.** Effects of variability on auditory discrimination of melodic intervals and lexical tones. *Exhibition of Undergraduate Research Enterprise and Creative Accomplishment*, Media, PA.
- 2015 **Bradley, E.D.** Shared processing of lexical tone and melody: representation or normalization? *Shared Processing in Language and Music*, Amsterdam, The Netherlands.
- 2013 **Bradley, E.D.** (Quasi)experiments, null results, and finding effects. *Society for Music Perception and Cognition*, Toronto, ON, Canada.
- 2013 **Panel Discussant.** Symposium: Good data practices and replicability in music perception and cognition. *Society for Music Perception and Cognition*, Toronto, ON, Canada.
- 2012 **Bradley, E.D.** Specificity of the effects of tone language experience on melody perception. *Auditory Perception, Cognition, and Action Meeting*, Minneapolis, MN.
- 2012 **Bradley, E.D.** Linking acoustic dimensions of melody and lexical tone. *Northeast Music Cognition Group*. New Haven, CT.
- 2008 Durvasula, K., Hestvik, A., Bradley, C., & **Bradley, E.** ERP evidence for laryngeal underspecification in English: A mismatch negativity study. *Western Conference on Linguistics*, Davis, CA.
- 2005 Syrett, K., **Bradley, E.**, Kennedy, C., & Lidz, J. Shifting standards: children's understanding of gradable adjectives. *Linguistic Society of America Annual Meeting*, San Francisco, CA.

## Conference Posters

- accepted **Bradley, E.D.**, Schmid, H.E., & Brown, J. Irish L2 pronunciation and the effects of orthography. *Celtic Linguistics Conference*, Cardiff, Wales.
- 2016 Young, C.E., Nicosia, A., Fairfield, B., Ezzedine, L., Mauro, G., & **Bradley, E.D.** Effects of singing on melodic interval perception training. *Exhibition of Undergraduate Research Enterprise and Creative Accomplishment*, Media, PA.
- 2016 **Bradley, E.D.** Assessing musical effects on lexical tone perception with aural skills training. *North-east Music Cognition Group*. Cambridge, MA.
- 2015 Brown, J., Ezzedine, L., Tokunaga, K., Young, C.E., Dolley, M., & **Bradley, E.D.** Effects of variability on auditory discrimination of melodic intervals and lexical tones. *Sigma Xi Research Symposium*, Philadelphia, PA.
- 2015 Young, C.E., Ezzedine, L., Tokunaga, K., Akimenko, E., Schmid, H.E., & **Bradley, E.D.** Stimulus variability effects on linguistic and musical pitch tasks. *Eastern Psychological Association*, Philadelphia, PA.
- 2014 Schmid, H.E., Singh, K., McCune, D., & **Bradley, E.D.** Normalization of stimulus variability across language and music: Lexical tones and musical intervals. *Penn State Undergraduate Exhibition in Hispanic and General Linguistics*, University Park, PA.
- 2014 McCune, D., Singh, K., & **Bradley, E.D.** Effects of stimulus variability on pitch discrimination: Lexical tones and musical intervals. *Exhibition of Undergraduate Research Enterprise and Creative Accomplishment*, Media, PA.
- 2013 **Bradley, E.D.** Lexical tone, melody discrimination, and tonality. *Centre for Research on Brain, Language and Music Symposium on Language & Music: Development*, Montréal, QC, Canada.
- 2011 Hestvik, A., **Bradley, E.**, & Bradley, C. Working memory effects of gap-predictions in normal adults: An event-related potentials study. *Neurobiology of Language Conference*, Annapolis, MD.
- 2011 **Bradley, E.D.** Song style and the acoustic vowel space of singing. *Society for Music Perception and Cognition*, Rochester, NY.
- 2010 **Bradley, E.D.**, & Hestvik, A. The auditory sensory hypothesis of the early left anterior negativity. *Cognitive Neuroscience Society Annual Meeting*, Montréal, QC, Canada.
- 2009 Hestvik, A., Durvasula, K., **Bradley, E.**, & Bradley, C. ERP evidence for laryngeal underspecification in English. *Neurobiology of Language Conference*, Chicago, IL.
- 2009 Hestvik, A., **Bradley, E.**, Bradley, C., Kaufmann, M., Prescott, T., & Sparacino, L. An event-related potentials measure of the effect of low verbal memory span on gap-filling. *The Twenty-second Annual Meeting of the CUNY Conference on Human Sentence Processing*, Davis, CA.

## Invited Talks

### Research.

- 2015 Jun 17 Language, Music, Perception. *BiLD Lab*, Penn State University Park.
- 2014 Mar 5 Psycholinguistics & Music Cognition. *Faculty Forum*, Penn State Brandywine.
- 2012 Feb 17 Tone language experience and melody perception. *CogSci Grad Student Conf.* Univ. of Delaware.
- 2011 May 6 Crosslinguistic perception of pitch in language and music. *Grad Student Forum.* Univ. of Delaware.
- 2010 Mar 16 Deep Brain Stimulation. *Ethics and the Human Genome.* University of Delaware.
- 2010 Mar 10 Deep Brain Stimulation (w/ F. Adams). *Science, Ethics, and Public Policy.* Univ. of Delaware.
- 2009 Mar 6 ERP evidence for laryngeal underspecification. *CogSci Grad Student Conf.* Univ. of Delaware.
- 2008 Apr 18 Visual category perception measured with fMRI. *CogSci Grad Student Conf.* Univ. of Delaware.

### Teaching.

- 2014 Sep 17 Communicating effectively with professors. *Writing Center*, Penn State Brandywine.
- 2014 Apr 28 Linguistic diversity. *Applied Social Psychology*, Penn State Brandywine.
- 2014 Feb 19 Sensation & Perception. *Introduction to Psychology*, Penn State Brandywine.
- 2013 Oct 2 Sensation & Perception. *Introduction to Psychology*, Penn State Brandywine.
- 2013 Sep 30 Research Methods Panelist. *Basic Research Methods in Psychology*, Penn State Brandywine.
- 2013 May 24 The psychology of improvised performance. *Psychology of Music*, Lawrence University.
- 2013 Jan 19 Inferential processes in perception. *ACM-Mellon Postdoctoral Fellows Workshop*, Beloit College.
- 2011 May 4 Brain signals, audition, and syntax. *Language, Mind, and Society.* University of Delaware.
- 2009 Mar 16 Psycholinguistics & Neurolinguistics. *Language, Mind, and Society.* University of Delaware.

### Community & Professional Engagement.

- 2014 Sep 11 Science denialism and scientism. *What Brandywine Worries About*, Penn State Brandywine.
- 2013 Nov 11 Work–life balance. *Psychology of Gender*, Penn State Brandywine.
- 2012 Nov 13 How we hear music. *Sinfonia Music Forum*, Lawrence University.
- 2012 May 9 Psychological research on music. *Cab Calloway School for the Arts*, Wilmington, DE.
- 2011 May 3 Parenting Panelist. *Children in Families.* University of Maryland, College Park.
- 2010 Dec 7 Parenting Panelist. *Children in Families.* University of Maryland, College Park.
- 2009 Jun 10 Discussion Leader. *Undergraduate Research Ethics Training.* University of Delaware.

## ■ Funded Research

- 2015 **Aural skills training for the improvement of lexical tone learning**, *Research Collaboration Fellowship*, Social Science Research Institute, Penn State University.  
Co-PI Janet Van Hell, Penn State University Park
- 2014– **Models of Undergraduate Research Mentoring**, *Research Seminar on Excellence in Mentoring Undergraduate Research*, Center for Engaged Learning, Elon University.
- 2011–2013 **Crosslinguistic Perception of Pitch in Language and Music**, *Dissertation*, Univ. of Delaware.  
Abstracted in the LINGUIST List and *Psychomusicology*, 23(1). doi: 10.1037/a0030701  
Advisors Jeffrey Heinz & Irene Vogel, University of Delaware  
o National Science Foundation Doctoral Dissertation Research Improvement Grant (BCS-1156289)  
o University of Delaware Dissertation Fellowship
- 2009–2012 **Neuroethics of Deep Brain Stimulation**.  
Co-PIs Fred Adams, University of Delaware & Michael Frank, Brown University  
o UD Science, Ethics, and Public Policy Research Group Seed Grant (2010)  
o UD Science, Ethics, and Public Policy Research Group Seed Grant (2009)
- 2004–2005 **Acquisition of Novel Absolute and Relative Gradable Adjectives**.  
Advisors Christopher Kennedy & Jeffrey Lidz  
o Northwestern University Undergraduate Research Grant  
o Weinberg College of Arts & Sciences Research Grant  
o Cognitive Science Summer Undergraduate Research Fellowship

## ■ Honors & Awards

- 2011 **Doctoral Candidate Travel Fellowship**, *Center for Teaching & Learning*, Univ. of Delaware.  
10<sup>th</sup> Annual Lilly Conference on College and University Teaching.
- 2010 **Travel Award**, *Society for Education, Music and Psychology Research*.  
11<sup>th</sup> International Conference on Music Perception and Cognition.
- 2010 **Professional Development Award**, *Office of the Provost*, University of Delaware.  
Cognitive Neuroscience Society Annual Meeting
- 2008 **Professional Development Award**, *Office of the Provost*, University of Delaware.  
22<sup>nd</sup> Annual Meeting of the *CUNY Conference on Human Sentence Processing*
- 2004 **Poster Award**, *Generative Approaches to Language Acquisition–North America*.  
with Kristen Syrett, Christopher Kennedy, & Jeffrey Lidz.
- 2001–2005 **National Merit Scholarship**, *Northwestern University*.

## Teaching

### Undergraduate Courses

2013– **Penn State Brandywine.**

Cognitive Psychology  
Psychology of Language

Psychology of Perception  
Senior Seminar in Psychology

Foundations of Linguistics

2012–2013 **Lawrence University.**

Psychology of Improvisation  
Freshman Studies  
Cognitive Psychology

2010–2012 **University of Delaware.**

Introduction to Cognitive Science  
Introduction to Linguistics

Psycholinguistics  
Music Cognition

Philosophy of Mind (TA)

### Study Abroad Courses

2017 **Provence & the French Riviera**, *Brandywine Global Programs.*

The Study of Language  
Foundations of Linguistics

Historical Linguistics  
French Linguistics

2016 **Ireland & Northern Ireland**, *Brandywine Global Programs.*

Foundations of Linguistics

### Graduate Courses

2009–2012 **University of Delaware.**

Psychology of Music  
Elements of Cognitive Science  
Research Ethics

### Other Courses

2008 **Sensation and Perception**, *Instructor*, Center for Talented Youth, Johns Hopkins University.

### English/ESL

2011–2010 **SPEAK Test Evaluator**, English Language Institute, University of Delaware.

2010 **Pronunciation**, *Instructor*, English Language Institute, University of Delaware.

2010 **Tutor**, English Language Institute, University of Delaware.

## Mentorship

### Honors Theses Supervised.

- 2016–2017 Hope E. Schmid, *Schreyer Honors College*, Penn State Brandywine.  
*Encoding Gender in Pitch Within and Outside of the Binary*

### Independent Studies Supervised.

- 2016 Hope E. Schmid, Penn State Brandywine.  
*Regional and Social Dialects of Irish English*  
o Brandywine Undergraduate Research Grant
- 2016 Brian Fairfield, Penn State Brandywine.  
*Does singing help or hurt musical novices' listening skills?*  
o Brandywine Undergraduate Research Grant
- 2016 Corey Young, Antonio Nicosia, Brian Fairfield, Lori Ezzedine, Guy Mauro; Penn State Brandywine.  
*Effects of singing on melodic interval perception training.*  
o Brandywine Undergraduate Research Grant  
o Social Science and Humanities Research EURECA Award
- 2016 Jacqueline Brown, Penn State Brandywine.  
*Regional and social variation in Modern Irish and Hiberno-English.*  
o Brandywine Undergraduate Research Grant
- 2014 Hope Schmid, Penn State Brandywine.  
*Pitch perception in language and music.*  
o Brandywine Undergraduate Research Grant
- 2013–2014 Dennis McCune & Karmanpreet Singh, Penn State Brandywine.  
*Effects of stimulus variability on pitch discrimination.*  
o Social Science and Humanities Research EURECA Award
- 2013 Addison Goldberg, Lawrence University.  
*Effects of instruction on how musicians and non-musicians parse rhythms.*  
o William Schutte Grant

### Teaching Assistants.

- 2016 Antonio Nicosia, *Introduction to Cognitive Psychology*, Penn State Brandywine.
- 2016 Corey Young, *Psychology of Perception*, Penn State Brandywine.
- 2015 Jacqueline Brown, *Psychology of Language*, Penn State Brandywine.
- 2014 Jacqueline Brown, *Introduction to Cognitive Psychology*, Penn State Brandywine.
- 2010 Zenghong Jia, *Introduction to Linguistics*, University of Delaware.
- 2008 Ashley Albrecht, *Center for Talented Youth* Chestertown, Johns Hopkins University.



## Pedagogical Research & Development

- 2014–2015 **The Paperless Classroom**, *Teaching and Learning with Technology Faculty Engagement Award*, Educational Technology Services, Penn State University.

## Teaching Publications

- in prep **Bradley, E.D.** International fieldwork in an introductory linguistics course.
- in prep **Bradley, E.D.**, Bata, M., Dolan, E., Fitz Gibbon, H., Ketcham, C., Pollock, M., & Nicholson, B. The structure of mentoring in undergraduate research: Multi-mentor models.
- 2013 **Bradley, E.D.** Using persistent wikis as a pedagogical resource. In Ferris, S.P. & Wilder, H. (Eds.) *The plugged-in professor: Tips and techniques for teaching with social media*. Oxford: Chandos.
- 2011 **Bradley, E.D.** Creating course continuity with perseverant wikis. *Proceedings of the 10<sup>th</sup> Annual Lilly Conference on College and University Teaching and Learning*, Washington, DC.
- 2011 **Bradley, E.D.** & Evans, L.M. Engaging students in academic writing with annotated bibliographies. *Proceedings of the 10<sup>th</sup> Annual Lilly Conference on College and University Teaching and Learning*, Washington, DC.

## Teaching Presentations

- accepted **Bradley, E.D.**, Bata, M., Dolan, E., Fitz Gibbon, H., Ketcham, C., Pollock, M., & Nicholson, B. The structure of mentoring in undergraduate research: Multi-mentor models. *Excellent Practices in Mentoring Undergraduate Research*, Elon, NC.
- 2016 McCarvel, M., Martinez, M.T., Adams, K., **Bradley, E.D.**, Burley, L., & Canon, E. Thriving as an early career faculty member: A minicourse for ABD graduate students and postdoctoral fellows *Linguistic Society of America Annual Meeting*, Washington, DC.
- 2014 **Bradley, E.D.** Reading and researching paperlessly. *Teaching and Learning with Technology 101*, Penn State Lehigh Valley.
- 2012 **Bradley, E.D.**, et al. University of Delaware Department of Linguistics & Cognitive Science. In Symposium: How does the prosperity of the undergraduate major in linguistics affect the prosperity of the field? *Linguistic Society of America Annual Meeting*, Portland, OR.
- 2011 **Bradley, E.D.** & Smolter, N. Student Engagement. *TA Workshop*. University of Delaware.
- 2011 **Bradley, E.D.** & Riesenberger, T. Engaging students and making learning fun. *Annual Conference for Graduate Teaching Assistants*. University of Delaware.
- 2011 **Bradley, E.D.** & Emerick, B. Teaching your own course: Freedoms, responsibilities, and methods. *Annual Conference for Graduate Teaching Assistants*. University of Delaware.
- 2009 **Bradley, E.D.**, Delpéche, H., & Henderson, G. Making learning engaging, interesting, and fun: The TA as facilitator. *Annual Conference for Graduate Teaching Assistants*. University of Delaware.
- 2009 Hyde, P., **Bradley, E.D.**, & Funkhouser, B. Learning and teaching with technologies. *Annual Conference for Graduate Teaching Assistants*. University of Delaware.

## Other Teaching Activities

- 2013 **Winter Final Exam Committee**, *Freshman Studies*, Lawrence University.
- 2012 **Higher Education Teaching Certification**, *Center for Teaching and Learning*, Univ. of Delaware.
- 2011 **Senior TA Panelist**, *Annual Conference for Graduate Teaching Assistants*, University of Delaware.
- 2009–2011 **Senior Graduate TA Fellow**, *Annual Conference for Graduate TAs*, University of Delaware.
- 2009 **Sponsored Attendee**, *Lilly Conference on College and University Teaching*, University of Delaware.
- 2009 **Ethics Educator**, *Science, Ethics, and Public Policy Program*, University of Delaware.

## Service

### Disciplinary

- 2012– **Committee on Public Policy**, *Linguistic Society of America*.
- 2009– **Linguistics in Higher Education Committee**, *Linguistic Society of America*.
- 2009–2013 **Committee on Student Issues and Concerns**, *Linguistic Society of America*.
- 2011 **Student Volunteer**, *Linguistic Society of America Annual Meeting*.

### Institutional

- 2015– **Associate Administrator**, *Commonwealth Campus Psychology Subject Pool*, University College.
- 2015– **Alumni Admission Council**, Northwestern University.
- 2009–2010 **Responsible Conduct of Research Certification**, *Research Office*, University of Delaware.
- 2009 **Responsibility and Integrity in Science and Engineering Fellow**, *Center for Science, Ethics, and Public Policy*, University of Delaware.
- 2009 **Responsible Conduct of Research Student Committee**, *Research Office*, Univ. of Delaware.

### Campus

- 2015– **Honors Program Advisory Board**, Penn State Brandywine.
- 2014– **Committee on Women's and Gender Studies**, Penn State Brandywine.
- 2013–2015 **Common Read Task Force**, Penn State Brandywine.
- 2014 **Transforming Education Subcommittee**, *Strategic Planning Committee*, PSU Brandywine.
- 2014 **Campus Safety Officer Hiring Committee**, Penn State Brandywine.

### Department/Organization

- 2011– **Alumni Advisory Board**, *Phi Mu Alpha Sinfonia*, Iota Chapter, Northwestern University.
- 2010–2012 **Vice President**, *Linguistics Association of Delaware*.

## ■ Reviewing

### Ad-Hoc Reviewer

- 2016 Language and Speech.
- 2015–2016 Language, Cognition and Neuroscience.
- 2015 Journal of Experimental Psychology: Human Perception & Performance.
- 2015 International Journal of Language & Communication Disorders.

### Textbook Reviewer

- 2015 Rowman & Littlefield.
- 2012 Cambridge University Press.
- 2011 Sinauer Associates Publishers.

### Conference Reviewer/Judge

- 2013–2016 Linguistic Society of America Annual Meeting.
- 2014, 2016 Brandywine Exhibition of Undergraduate Research Enterprise and Creative Accomplishment.
- 2014 Eastern Psychological Association Annual Meeting.

## ■ Memberships

- 2014– Eastern Psychological Association
- 2013– Psychonomic Society Associate
- 2012– American Association of University Professors
- 2010– Society for Music Perception and Cognition
- 2004– Linguistic Society of America
- 2002– Phi Mu Alpha Sinfonia
  - Iota*, Northwestern University (collegiate)
  - Xi Mu*, University of Delaware (alumnus)
  - Gamma Zeta*, Lawrence University (faculty)

## ■ Languages

- English **native**
- Spanish **conversant**
- Irish **rudimentary**