Last updated: 19-Apr-2024

2009

Grant M. Berry

Curriculum Vitae

Mendel Science Center G65-C Villanova University 800 E. Lancaster Ave. Villanova, PA 19085

Email: grant.berry@villanova.edu **Phone:** +1 (857) 762-4887 Web: https://grantberry.info

Interests: Language Variation and Change, Phonology, Bilingualism, Cognitive Science, Machine Learning

Interests: Language Variation and Change, Phonology, Bilingualism, Cognitive Science, Machine Learning				
Academic Appointments				
Assistan	t Professor	2020-Present		
Department of Spanish (~0.6 FTE); Cognitive Science Program (~0.4 FTE)				
Villar	nova University (Villanova, PA)			
Director, Language Use and Variation (LUV) Lab				
	lel Science Center G65-B (Web : luv-lab.info)			
Villar	nova University (Villanova, PA)			
	Other Appointments			
	Applied Scientist II			
Amazon Prime Video (Remote); 0.2-0.5 FTE				
	Technical Program Manager, Data Quality			
	Alexa Applied Modeling and Data Services; Amazon (Cambridge, MA)			
Language Engineer		2018-2019		
Alexa	a Household Organization; Amazon Canada (Vancouver, BC)			
Educat	ion and Training			
_	Visiting Scholar, Radboud University	2024		
PhD	Dual title in Spanish and Language Science, The Pennsylvania State University	2018		
-	Visiting Scholar, University of Pennsylvania	2017		
-	Visiting Scholar, Max Planck Institute for Psycholinguistics	2015		
-	Linguistic Society of America Summer Institute, University of Chicago	2015		
MA	Spanish, The Pennsylvania State University	2014		
-	Fulbright Teaching Assistantship, Universidad Nacional de Río Cuarto, Argentina	2011		
BA	Spanish, Truman State University	2010		
BS	Mathematics, Truman State University	2010		
Research Funding ≥ \$1,000 (amounts are rounded to the nearest \$100)				
\$35,000	Research Catalyst Grant (co-PL: Joseph C. Toscano), Villanova University	2023		
	Villanova Match Research Program (Support for 1st-year Student RA)	2023		
\$12,000	University SU Grant, Villanova University	2022		
\$1,000	Villanova Match Research Program (Support for 1st-year Student RA)	2022		
\$3,300	Small Research Grant, Villanova Institute for Research & Scholarship (VIRS)	2021		
\$15,100	NSF Doctoral Dissertation Research Improvement Grant (#BCS1651061)	2017		
\$ 1,000	Center for Global Studies Fellowship, Penn State University	2017		
\$ 2,000	Superior Teaching and Research (STAR) Award, Penn State University	2016		
\$ 2,000	RGSO Dissertation Award, Penn State University	2015		
\$ 3,000	Superior Teaching and Research (STAR) Award, Penn State University	2014		
\$ 4,000	Graduate Scholar Award, Penn State University	2014		

\$ 2,000 Student Research Grant, Truman State University

Peer-reviewed Publications (* denotes undergraduate student collaborators)

Stuff that's in the Pipeline

- **Berry, G.M.** (On Hold). Relative syllable duration and pitch alignment in the Spanish of Córdoba, Argentina. Preprint: 10.31234/osf.io/spfqx
- **Berry, G.M.** (In Prep). Sex-differentiated strategies for stereotype avoidance: OH-Lowering in Philadelphia Puerto Rican English. (Submission planned for Apr 2024.)
- **Berry, G.M.**, Caselli, J.* & Gunderson, S.* (In Prep). Reactive control modulates the integration of segmentally constrained phonetic variation. (Submission planned for Aug 2024.)

Published or Forthcoming

- Patchell, A.*, & **Berry, G.M.** (2024). TH-stopping in Philadelphia Puerto Rican English. *Language Variation and Change, 36*(1), 73-93. doi: 10.1017/S0954394524000012
- Coretta, S., Casillas, J.V.,...**Berry, G.M.**, ..., Roettger, T. (2023). Multidimensional signals and analytic flexibility: Estimating degrees of freedom in human speech analyses. *Advances in Methods and Practices in Psychological Science* 6(3), 25152459231162570.
- Gupta, P., Nelakanti, A., **Berry, G.M.**, & Sharma, A. (2022). Interactive post-editing for verbosity-controlled translation. In *Proceedings of the 29th International Conference on Computational Linguistics* (COLING 2022). https://aclanthology.org/2022.coling-1.454.pdf
- Requena, P.E., & **Berry, G.M.** (2021). Cross-linguistic influence in L1 processing of morphosyntactic variation: Evidence from L2 learners. *Applied Psycholinguistics*, 42(1), 153-180. doi:10.1017/S0142716420000685
- Ilola, I., Mikulski, A., Rodriguez-Padial., A., & **Berry, G.M.** (2019). Written feedback in Heritage Spanish classrooms: A national survey of students and educators. *Revista Española de Lingüística Aplicada* [Spanish Journal of Applied Linguistics], *32*(2), 543-572. doi: 10.1075/resla.18018.mik
- **Berry, G.M.**, & Ernestus, M. (2018). Phonetic alignment in English as a *lingua franca*: Coming together while splitting apart. *Second Language Research*, 34(3), 343-370. doi: 10.1177/0267658317737348
- Torres Cacoullos, R., & **Berry, G.M.** (2018). Sociolinguistic variation in US Spanish. In Potowski, K. (Ed.), *Handbook of Spanish as a Heritage/Minority Language*. Routledge, 254-268.
- **Berry, G.M.** (2017). Structural autonomy and aspectual import: A new(er) Spanish Progressive. *Probus*, 29(2), 205-232. doi: 10.1515/probus-2015-0001
- **Berry, G.M.** (2016). Processing linguistic variation through dual mechanisms of cognitive control. *Linguistics V anguard*, 2(s1). doi: 10.1515/lingvan-2016-0033

Other Honors/Awards

- 2022 Echo 25: 25 Exceptional Alumni Under 40, Truman State University
- 2018 Ray Lombra Award for Excellence in Research (\$1,000)
- 2017 Humanities Initiative Dissertation Teaching Release, Penn State University
- 2016 Edwin Erle Sparks Fellowship, Penn State University College of the Liberal Arts
- 2016 NSF PIRE Travel Grant, Penn State University Center for Language Science
- 2016 Jesús Díaz Prize for Spanish, Penn State University Dep't. of Spanish, Italian, and Portuguese
- 2015 NSF PIRE Graduate Fellowship, Penn State University Center for Language Science
- 2015 Linguistic Society of America Institute Fellowship
- 2014 Jesús Díaz Prize for Spanish, Penn State University Dep't. of Spanish, Italian, and Portuguese
- 2010 Gabriela Mistral Award, Sigma Delta Pi Spanish Honor Society
- 2010 Senior Leadership Award, Truman State University
- 2010 Outstanding Spanish Student, Truman State University
- 2009 Student-initiated Course Grant, Truman State University (\$1,000)
- 2006 Pershing Scholarship (Tuition, R&B, \$4,000 Study Abroad Stipend), Truman State University
- 2006 Missouri Department of Higher Education Academic Scholarship (\$8,000)

Invited Talks and Workshops

1. Leveraging skills from graduate studies to excel in academia and industry Radboud University Graduate School for the Humanities; 18 Mar 2024

2. Cognitive and experiential factors in real-time phonetic drift Radboud University Centre for Language Studies; 7 Mar 2024

3. Why I left academia... and why I came back.

Basque Center on Cognition, Brain, and Language; 5 May 2022

4. AI and bias: Who's to blame?

Villanova University; Charles Widger School of Law; 1 Jan 2022

- 5. From the periphery to the forefront: Puerto Rican English and Philadelphia sound change University of Pennsylvania Integrated Language Science & Technology Series; 16 Apr 2021
- **6.** Legal applications of artificial intelligence for social justice Villanova University; Charles Widger School of Law; 21 Jan 2021
- 7. Visualizing linguistic data in R

Penn State University; Department of Spanish, Italian, and Portuguese; 23 Feb 2018

- **8.** On the cognitive processing strategies underlying the propagation of sound change Penn State University; Center for Language Science Speaker Series; 12 Jan, 2018
- 9. Dimension reduction methods: Principal component analysis, factor analysis, and *k*-means clustering Penn State University Department of Spanish, Italian, and Portuguese; 27 Nov 2017
- **10.** Best practices in data visualization: An introduction to the *ggplot2* package in R University of Pittsburgh; Department of Linguistics; 10 Nov 2017
- **11.** Echoes from below: Minority adoption of majority sound change University of Pittsburgh; Linguistics Colloquium Talk; 10 Nov 2017
- **12.** Cognitive control, phonological integration, and the propagation of sound change University of Pennsylvania; Common Grounds Speaker Series; 12 May 2017
- 13. Shrinking down sound change: Cognitive control and phonological adaptation Penn State University; Distinguished Language Science Colloquium; 14 April 2017
- 14. Using OpenSesame for experiment building

University of Pennsylvania; Language Variation and Cognition Lab; 29 March 2017

- 15. RE-assessment and RE-adjustment: Optimizing random effects in linear mixed effects models
 Guest lecture in LING 660: Research Seminar in Sociolinguistics, University of Pennsylvania
 (Instructor: Meredith Tamminga). 20 March, 2017
- **16.** Shifting leftward? Syllable duration and pitch anchoring in Central Argentine Spanish Ohio State University; Hispanic Linguistics Colloquium; 17 Feb 2017
- 17. Dual mechanisms of cognitive control and phonological adaptation

University of Pennsylvania; Language Variation and Cognition lab; 1 Feb 2017

- 18. Phonetic alignment in English as a *lingua franca*: Effects of style, proficiency, and L1 influence

 Penn State University; Center for Global Studies Brown Bag Lecture; 28 Sept 2016
- 19. The long and short of it: How alignment and cognitive processing may influence sound change Penn State University; Distinguished Language Science Colloquium; 22 April 2016
- **20.** When *habla* isn't the same as *está hablando*: Grammaticalization of the Spanish Progressive Truman State University; Sigma Delta Pi Distinguished Alumni Speaker Series; 7 April 2016
- 21. How a Liberal Arts education prepared me for graduate school

Truman State University; Sigma Delta Pi Distinguished Alumni Speaker Series; 6 April 2016

22. Phonetic alignment and style shifting in English as a lingua franca

Truman State University; Sigma Delta Pi Distinguished Alumni Speaker Series; 5 April 2016

23. Using literature in the study of language change

Truman State University; Sigma Delta Pi Distinguished Alumni Speaker Series; 4 April 2016

24. Coming together, splitting apart: Vocalic accommodation in EFL discourse

Radboud University Nijmegen; Centre for Language Studies; 15 Feb 2016

- **25.** Individual differences in the adoption of variable phonology: Preliminary findings Max Planck Institute for Psycholinguistics; Sound Learning Lab; 13 Oct 2015
- **26.** Prosodic and social predictors of speech in central Argentina: The *tonada cordobesa* Universiteit Leiden; Centre for Linguistics; 9 October, 2015
- 27. Transcribing in ELAN by Intonation Units

Penn State University; SPAN 597 Course (Functional Syntax); 26 March 2015

28. PRAAT scripting workshop

University of British Columbia; Speech in Context Lab; 10 March 2015

29. Data visualization in R using ggplot2

University of British Columbia; Speech in Context Lab; 9 March 2015

Peer-reviewed Conference Talks and Posters

Papers/Talks

- 1. Berry, G.M., Caselli, J., & Toscano, J.C. (2024). Acoustic change detection as a predictor of phonological adaptation. Variation and Language Processing 6. Vigo, Spain. 26-28 Jun.
- 2. Gupta, P., Nelakanti, A., **Berry, G.M.**, & Sharma, A. (2022). Interactive post-editing for verbosity-controlled translation. 29th International Conference on Computational Linguistics. Gyeongju, Republic of Korea., 12-17 Oct.
- **3. Berry, G.M.** (2022). Cognitive correlates of phonological adaptation: Reactive control predicts participation in simulated sound change. Annual Meeting of the Linguistic Society of America. Washington, D.C., 6-9 Jan.
- **4.** Patchell, A.*, & **Berry, G.M.** (2022). Do Philly Puerto Ricans say *dat*? An acoustic analysis of TH-Stopping as a change in-progress. Annual Meeting of the Linguistic Society of America. Washington, D.C., 6-9 Jan.
- **5. Berry. G.M.** (2021). Cognitive processing strategy and the phonological integration of phonetic variation. New Ways of Analyzing Variation 49. University of Texas at Austin. 19-24 Oct.
- **6.** Requena, P.E., & **Berry, G.M.** (2021). L2 learners' processing of syntactic variation in the L1. Variation and Language Processing 5. University of Copenhagen. 25-27 Aug.
- 7. Berry, G.M. (2018). Minorities in the lead? Puerto Rican adoption of Philadelphia sound changes in-progress. New Ways of Analyzing Variation 47. New York University. 18-21 Oct.
- **8. Berry, G.M.** (2018). Echoes from below: Puerto Rican adoption of Philadelphia sound changes inprogress. 9th Int'l Workshop on Spanish Sociolinguistics. Queens College. 4-7 April.
- **9. Berry, G.M.**, & Ernestus, M. (2016). Alignment-induced phonological variation in non-native dialogue. New Ways of Analyzing Variation 45. Simon Fraser University. 3-6 Nov.
- **10. Berry, G.M.** (2016). What Puerto Ricans can tell us about the actuation of sound change: Social and cognitive constraints on the adoption of changes-in-progress. 8th Int'l Workshop on Spanish Sociolinguistics. Universidad de Puerto Rico, Río Piedras. 13-16 April.
- **11. Berry, G.M.** (2016). Proactive inhibitory control and the adoption of sound changes-in-progress. Sociolinguistic Variation and Language Processing. Virginia Tech. 31 March 2 April.
- **12.** Torres Cacoullos, R., **Berry, G.M.**, Champi, C., Perrotti, L., & Ramos, M. (2015). Expresión variable de los pronombres de sujeto: Diferencias entre él y ella [Variable expression of subject pronouns: Distinguishing él and ella]. X Congreso Internacional de la Historia de la Lengua Española [Tenth International Conference on the History of Spanish]. Universidad de Zaragoza. 7-11 Sept.
- **13. Berry, G.M.** (2015). A quantitative account of the *tonada cordobesa*: The contribution of pitch, duration, and style in production. Ohio State Congress on Hispanic and Lusophone Linguistics. Ohio State University. 10-11 April.
- **14.** Torres Cacoullos, R., **Berry, G.M.**, Champi, C., Perrotti, L., & Ramos, M. (2014). Early conditioning of Spanish variable subject expression. New Ways of Analyzing Variation 43. Chicago. 23-26 Oct.

- **15. Berry, G.M.** (2014). Transcribing the 'tune': Prosodic and sociolinguistic properties of the *tonada cordobesa*. First Symposium on Tone and Intonation in the Spanish-Speaking World. University of Massachusetts, Amherst. 10-11 Oct.
- **16. Berry, G.M**. (2014). Concretization of a construction: Conditioning the Progressive in 20th-century Spain. Georgetown University Roundtable on Languages and Linguistics. Georgetown. 13-16 March.
- 17. Berry, G.M. (2014). Ghosts in the bilingual machine: The role of language experience in CC resolution strategies for Spanish-English bilinguals. Current Approaches to Spanish and Portuguese Second Language Phonology. Georgetown University. 13-16 March.

Posters

- 1. Requena, P. E. & Berry, G. M. (2021). L2 learners' processing of syntactic variation in the L1. Paper to be presented online at the 5th Variation and Language Processing Conference (VALP5). Copenhagen, Denmark. 25-27 Aug.
- **2. Berry, G.M.** (2018). Cognitive processing strategy and the phonological integration of phonetic variation. 16th meeting of the Association for Laboratory Phonology (LabPhon 16). Lisbon. 19-22 June.
- **3. Berry, G.M.** (2017). Dual mechanisms of cognitive control modulate the integration of phonological variation. 4th Workshop on Sound Change. Edinburgh. 20-22 April.
- **4.** Requena, P.E., & **Berry, G.M**. (2017). A bilingual advantage in processing variation: Evidence for shared morphosyntactic representations. Symposium on Bilingualism in the Hispanic and Lusophone World (BHL). Florida State University. 27-29 Jan.
- **5. Berry, G.M.**, & Ernesus, M. (2016). Phonetic alignment in English as a lingua franca. 15th Meeting of the Association for Laboratory Phonology (LabPhon 15). Cornell. 13-16 July.
- **6.** Gullifer, J.W., **Berry, G.M.**, Navarro-Torres, C., Kroll, J.F., & Dussias, P.E. (2016). What about the syntax? Bilingual word recognition in sentence context. International Meeting of the Psychonomic Society. Granada, Spain. 5-8 May.
- 7. Berry, G.M., & Benevento, N. (2016). Contact on a different time scale: Phonetic variation in a longstanding contact variety. Annual Meeting of the Linguistic Society of America. Washington, D.C. 7-10 Jan.
- **8. Berry, G.M.**, & Torres Cacoullos, R. (2015). Inferring the social from the linguistic: Clustering and stratification in NM Spanish. Linguistic Society of America Institute. University of Chicago. 14 July.
- 9. Gullifer, J.W., Kroll, J.F., Dussias, P.E., Navarro-Torres, C., & Berry, G.M. (2015). Using syntactic priming to identify cross-language constraints in bilingual language processing. International Symposium on Bilingualism. Rutgers University. 20-24 May.
- **10. Berry, G.M.** (2014). Alternating aspect: Conditioning the Progressive in 20th-century Spain. 7th Int'l Workshop on Spanish Sociolinguistics. University of Wisconsin. 3-5 April.
- 11. Beatty-Martínez, A., Berry, G.M., & Platz, R. (2014). Contrasts in code-switches at the Determiner Phrase. 7th Int'l Workshop on Spanish Sociolinguistics. University of Wisconsin. 3-5 April.

Teaching (*Indicates course design and instruction)

Villanova University

Sociolinguistic Variation in US Spanish (SPA 3412)*	SP 2023
Fairness in Artificial Intelligence (CGS 5990)*	SP 2023
Phonetics (CGS 5990)*	FA 2022
From Latin to Spanish (SPA 3412)*	FA 2022
Introduction to Translation (SPA 3200)*	SP 2022
Sounds of Spanish (SPA 2124)*	SP 2021, 2023
Bilingualism (CGS 4000/PSY 8900) *	SP 2021, 2022
Advanced Spanish (SPA 1138) *	SP 2021, FA 2023
Linguistics as a Cognitive Science (CGS 2000) *	FA 2020, 2021, 2023
Introduction to Spanish Linguistics (SPA 3214) *	FA 2020, 2021, 2023
	SU 2021, 2022

Penn State University

Sociolinguistic Variation in US Spanish (SPAN 497)*	SP 2018
The Evolution of Spanish (SPAN 418)*	FA 2017
Elementary Intensive Spanish (SPAN 002/052)	SU 2017
Elementary Spanish 2 (SPAN 002)	SP 2013; FA 2016
Translation (SPAN 412)*	SU 2016
Intermediate Intensive Spanish (SPAN 003/053)	SU 2016
Introduction to Spanish Linguistics (SPAN 215; as TA)	SP 2015
Intermediate Spanish 3 (SPAN 003)	FA 2014
Advanced Oral Expression and Communication (SPAN 410)*	SU 2014
Spanish Phonology (SPAN 414)*	FA 2013
Introductory Intensive Spanish (SPAN 001/051)	SU 2013, 2015

Student Advising (LUV Lab)

Villanova University

Student Name	<u>Program</u>	Years (Inclusive)
Camila Pierini	Psychology	2024-Present
Rina Hanumali	Biochemistry	2024-Present
Claire Donnelly	Biology	2024-Present
Fatima Salman	Cognitive Science	2024-Present
Emma Pankuck	Psychology/Spanish	2023-Present
Valeria Ruiz	Biology	2023-Present
Mark Faverzani	Computing Science	2023-Present
Cara Scancarella	Psychology	2022-Present
Chloe Abo	Biology/Spanish	2022-Present
Sophia Gunderson	Biology	2022-2024
Jake Caselli	Cognitive Science	2022-Present
Paul Sánchez-Wangen	Business	2023
Meghan Chegwidden	Psychology	2022-2023
Bilge Koçak	Computing Science	2022-2023
Christian Schaffer	Spanish	2021-2023
Serena Matos	Spanish	2021-2023
Abigail Patchell	Cognitive Science	2020-2023
Eleanore Woodruff	Economics	2021-2022
Louis Pitingolo	Computing Science	2021-2022
Chiara Rego	Cognitive Science	2021-2022
Olivia Tigri	Cognitive Sci/Spanish	2021-2022
Daniel Winkler	Criminology/Spanish	2020-2022
Samantha Mills	Cognitive Science	2021-2021
Xin (Sophia) Tong	Computing Science	2021-2021
Siyu Lin (MS committee)	Cognitive Science	2020-2021

Service to the Profession

Peer Review

Education Sciences; Australian Journal of Linguistics; Languages; Language Dynamics and Change; Foreign Language Annals; Bilingualism: Language and Cognition; Attention, Perception, and Psychophysics; Laboratory Phonology; Frontiers: The Journal for Study Abroad; Language Variation and Change; Georgetown University Round Table. Language and Speech; National Science Foundation

Institutional Villanova University

Service

Job Search Committee (2020-2021); Department Website Administrator (2021-Present); Cognitive Science Faculty Committee (2020-Present); Diversity and Inclusion Committee

(2020-2022); Assessment Committee (2020-2022); Language Science Program Curriculum Design (2020-Present); Curriculum Committee (2023-Present); Mid-term Student Satisfaction Survey (2020, 2021); Research Catalyst Grant Reviewer (2023)

The Pennsylvania State University

Curriculum Restructuring Consultant; Graduate Student Organization Executive Board (President; Secretary; Int'l Programs Liason); PSUxLing Conference Organizing Committee (Founding Member); Six-year Review Data Analyst; Recruitment Committee; Bilingualism Matters! Newsletter Editor and Bilectalism Outreach Group member

Outreach/Media

- 1. You gotta have rizz to slay How Oxford chooses its word of the year (12/28/23) | KYW News Radio
 - https://www.audacy.com/podcast/kyw-newsradio-in-depth-0da71/episodes/you-gotta-have-rizz-to-slay-how-oxford-chooses-its-word-of-the-year-25daf
- 2. Canelo Álvarez Flexes His Business Muscle (12/07/23) | Forbes (Translation/Interpretation Assistance)
 - https://www.forbes.com/sites/brettknight/2023/12/07/canelo-alvarez-interview-boxing-champion-flexes-his-business-muscle/
- 3. Alexa, How do You Work? | Villanova Magazine (Fall 2023 Feature)
 - https://www1.villanova.edu/vu/magazine/fall-2023/features/alexa-how-do-you-work.html
- 4. Community Conversations: Sociolinguistics | Main Line Network (Public Access)
 - https://www.youtube.com/watch?v=H_MLbfrsrWQ
- 5. Expert Wordle Tips from Villanova Linguist Dr. Grant Berry (02/02/22) | KYW News Radio
 - https://www.audacy.com/kywnewsradio/podcasts/kyw-newsradio-in-depth-229/expert-wordle-tips-from-villanova-linguist-dr-grant-berry-1229772089
- 6. So Does Elmo Have a Philly Accent? We Asked an Expert (01/21/22) | Philadelphia Magazine
 - https://www.phillymag.com/news/2022/01/21/elmo-philadelphia-accent/
- 7. Wordle: How to play (and win) like a linguist | Villanova Experts on the News
 - https://www1.villanova.edu/university/experts/spotlight-detail.html?spotlight=8313
- 8. Philly Accent: There's a lot youse don't know (02/15/19) | Philadelphia Inquirer and Daily News
 - https://www.inquirer.com/news/philadelphia/philly-accent-philadelphia-english-words-20190215.html
- 9. Newsletter contributor/editor | Bilingualism Matters! @ Penn State University
 - SU/FA 2018 letter from the Editors | https://sites.psu.edu/bilingualismmatters
 - Vowels and language variation | http://sites.psu.edu/bilingualismmatters/a-e-i-o-u-and-sometimes-y

Membership in Academic Organizations

Acoustical Society of America; Psychonomic Society; Association for Laboratory Phonology; Linguistic Society of America; Phi Beta Kappa; Phi Kappa Phi

Technology & Software Proficiency

Acoustic Analysis/Transcription PRAAT, ELAN, Audacity; FAVE; MFA

Quant/Stats Bayesian modeling; Hierarchical regression; Factor analysis

Experimental Implementation OpenSesame, E-Prime, Mechanical Turk, JATOS

Markup Languages/Style/Programming CSS, PRAAT; Git; Bash/Z-Shell; Python (2.x-3.x)

Language Proficiency

English Native

Spanish (ARG, ES, General Am.Lat) Near-native (C.E.L.U-Avanzado, muy bien)

Classical Latin Intermediate (reading comprehension)

Portuguese Elementary (reading comprehension)

Modern Standard Arabic Elementary (coursework)

Dutch Elementary (research experience)