

Daniel J. Panyard

Curriculum Vitae

Department of Population Health Sciences
University of Wisconsin-Madison

Email: panyard[at]wisc[dot]edu
Web: <https://dpanyard.github.io/>

EDUCATION

University of Wisconsin-Madison , Madison, WI	2015 – 2020
PhD, Department of Population Health Sciences (anticipated) Dissertation: Integrative analysis of genomics and cerebrospinal fluid metabolomics in Alzheimer's disease Mentors: Drs. Corinne Engelman and Qiongshi Lu Certificate in Bioinformatics at the Graduate Level	
Loyola Stritch School of Medicine , Maywood, IL	2010 – 2011
Michigan State University , East Lansing, MI	2006 – 2010
BS, Physiology, College of Natural Science Specialization: Bioethics, Humanities, & Society	

RESEARCH

Research Assistant , University of Wisconsin-Madison, Madison, WI	2019 – 2020
Genomics, metabolomics, and proteomics of Alzheimer's disease (Dr. Corinne Engelman)	
Trainee , University of Wisconsin-Madison, Madison, WI	2017 – 2019
Bio-Data Science Training Program (T32LM012413-02) Rotation: tissue-specific polygenic risk scores in Alzheimer's disease (Dr. Qiongshi Lu) Rotation: genotype-metabolite associations in cerebrospinal fluid (Dr. Corinne Engelman)	
Trainee , University of Wisconsin-Madison, Madison, WI	2016 – 2017
Interdisciplinary Training Program in Cardiovascular and Pulmonary Biostatistics (5T32HL83806-10) Rotation: gene expression in allergies to sulfa antibiotics (Dr. Michael Newton) Rotation: predicting long-range chromatin interaction (Dr. Sushmita Roy) Rotation: RNA-seq and epigenomics in murine anemia models (Dr. Sunduz Keles)	
Research and Project Assistant , Health Innovation Program, Madison, WI	2015 – 2016
Implementing clinic protocols to address hypertension and tobacco use among rheumatology patients (Dr. Christie Bartels)	
Professorial Assistant , Michigan State University, Lansing, MI	2006 – 2010
Atomic force microscopy of desmosomes in pemphigus vulgaris	

PUBLICATIONS

1. Bartels, Christie M., Ramly E, Johnson HM, Lauver DR, **Panyard DJ**, Li Z, Sampene E, Lewicki K, McBride PE. "Connecting Rheumatology Patients to Primary Care for High Blood Pressure: Specialty clinic protocol improves follow-up and population blood pressures." *Arthritis care & research* (2018). [PMCID: PMC6274604]
2. Reinhart JM, Rose W, **Panyard DJ**, Newton MA, Liebenstein TK, Yee J, Trepanier LA. RNA expression profiling in sulfamethoxazole-treated patients with a range of in vitro lymphocyte cytotoxicity phenotypes. *Pharmacol Res Perspect*. 2018 Mar 2; 6(2):e00388. doi: 10.1002/prp2.388. eCollection 2018 Apr. [PMCID: PMC5832900]
3. **Panyard DJ***, Ramly E*, Dean SM, Bartels CM. Bridging clinical researcher perceptions and health IT realities: A case study of stakeholder creep. *International journal of medical informatics*. 2018 Feb 28;110:19-24. [PMCID: PMC5769155]
4. Vreede AP, Johnson HM, Piper M, **Panyard DJ**, Wong JC, Bartels CM. Rheumatologists Modestly More Likely to Counsel Smokers in Visits Without Rheumatoid Arthritis Control: An Observational Study. *J Clin Rheumatol*. 2017;23(5):273-277. [PMCID: PMC5590221]
5. Bartels CM, Ramly E, **Panyard D**, Lauver D, Johnson HM, Steffen Lewicki K, McBride P. "Quit Connect Health Toolkit." University of Wisconsin-Madison School of Medicine and Public Health, UW Center for Tobacco Research and Intervention, and UW Health. Madison, WI; 2017. Available at: <https://www.hipxchange.org/QuitConnectHealth>
6. Fung CK, Seiffert-Sinha K, Lai KW, Yang R, **Panyard D**, Zhang J, Xi N, Sinha AA. Investigation of human keratinocyte cell adhesion using atomic force microscopy. *Nanomedicine*. 2010;6(1):191-200.

WORK IN PROGRESS

1. **Panyard DJ**, Kim KM, Darst BF, Deming YK, Zhong X, Wu Y, Carlsson CM, Johnson SC, Asthana S, Engelman CD[†], Lu Q[‡]. Cerebrospinal fluid metabolome-wide association study of neurological traits. Manuscript in preparation.
2. McKetney J[‡], **Panyard DJ**[‡], Johnson SC, Carlsson C, Engelman CD, and Coon JJ. Proteomic analysis of cerebrospinal fluid in Alzheimer's disease. Manuscript submitted.
3. **Panyard DJ**, Carlsson CM, Johnson SC, Asthana S, Engelman CD. Longitudinality of the cerebrospinal fluid metabolome. Work in progress.
4. **Panyard DJ**, Wang T, Du L, Carlsson CM, Johnson SC, Asthana S, Engelman CD, Lu Q. Tissue-specific polygenic risk scores in Alzheimer's disease. Work in progress.

* Denotes joint first authorship

† Denotes joint senior authorship

‡ Denotes joint first authorship

PRESENTATIONS

1. **Panyard DJ**, Kim KM, Darst BF, Deming YK, Engelman CD, Lu Q. Metabolome-wide association study identifies altered cerebrospinal fluid metabolites in Alzheimer's disease. American Society of Human Genetics Annual Meeting. Poster Presentation, October 16, 2019. Houston, TX.
2. **Panyard DJ**, Darst BF, Lu Q, Engelman CD. Genome-wide association study of the cerebrospinal fluid metabolome. International Genetic Epidemiology Society Annual Meeting. Poster Presentation, October 14, 2019. Houston, TX.
3. **Panyard D**, Darst B, Johnson S, Engelman C, Lu Q. A genome-wide association study of the cerebrospinal fluid metabolome. National Library of Medicine Informatics Training Conference. Oral Presentation, June 25, 2019. Indianapolis, IN.
4. **Panyard D**, Engelman C, Lu Q. Genetic correlation of the ATN and V categories. Alzheimer's Disease Center Clinical Core Leaders Meeting. Oral Presentation, May 3, 2019. Philadelphia, PA.
5. **Panyard D**, Darst B, Kosciuk R, Clark L, Johnson S, Engelman C, Lu Q. Tissue-specific polygenic risk scores predict amyloid biomarkers. Alzheimer's Association International Conference. Oral presentation, July 24, 2018. Chicago, IL.
6. Ramly E, **Panyard D**, Lauver D, Sampene E, Li Z, Johnson H, McBride P, Lewicki KS, Bartels CM. Sustained Improvement in Follow-up of Hypertension in Rheumatology Patients: Results of an intervention sustainability assessment. American College of Rheumatology national meeting. Oral presentation, November 16, 2016. Washington, DC.
7. **Panyard D**, Ramly E, Lauver D, Gilmore A, Adsit R, Skora A, Maxcy C, Bartels CM. Developing a staff-driven electronic smoking cessation referral program in rheumatology clinics. Poster presentation, American College of Rheumatology annual meeting, November 13, 2016. Washington, DC.
8. Bartels CM, **Panyard D**, Lauver D, Sampene E, Li Z, Adsit R, McBride P, Johnson H, Lewicki KS, Ramly E. Feasibility of a Rheumatology Staff Protocol for Tobacco Cessation Counseling and Quit Line Electronic Referral. American College of Rheumatology national meeting. Poster presentation November 13, 2016. Washington, DC.
9. Bartels CM, Gilmore A, **Panyard D**, Maxcy C, Adsit A, Ramly E. "I Never Had the Verbiage": Engaging Clinic Staff to Adapt a Tobacco Cessation e-Referral Protocol for Rheumatology Clinics. Accepted abstract for EULAR Meeting (European League Against Rheumatism). June 8-11, 2016. London, U.K.

TEACHING

Lab practical supervisor, University of Wisconsin, Madison, WI
PHS 849: Genetic Epidemiology.

Fall 2019

Guest lecturer, University of Wisconsin, Madison, WI
"What happens after GWAS? Polygenic scores, Mendelian randomization, and other methods". PHS 849: Genetic Epidemiology.

Fall 2019

Guest speaker , Homestead High School, Fort Wayne, IN “Big data, science, and modern biomedical research”. Math and science classes.	Fall 2017
Guest speaker , Sun Prairie High School, Sun Prairie, WI “Epidemiology, big data, and calculus”. Calculus class.	Spring 2017
Guest speaker , University of Wisconsin, Madison, WI “Epidemiology and Population Health Science”. Nutritional Science 203: Intro to Global Health.	Spring 2017

MENTORING

Autumn R. Morrow , University of Wisconsin, Madison, WI Undergraduate research mentor, BIO 152 mentor. BS in Neurobiology and Genetics. BS expected 2022.	2019 – 2020
Dong Fang , University of Wisconsin, Madison, WI Undergraduate research mentor. BS in Computer Sciences and Statistics. BS expected 2021.	2019 – 2020
Kyeong Mo (Roy) Kim , University of Wisconsin, Madison, WI Undergraduate research mentor. BS in Bioengineering & Biotechnology, International Academic Program. BS expected 2020 (Yonsei University).	Spring 2019

AWARDS AND HONORS

UW Madison Teaching Academy Affiliate Member (2019)	UW-Madison
Catherine Allen Memorial Outstanding Student Poster Award (2017)	UW-Madison
Outstanding New Student Scholarship	UW-Madison
Durr-Keean Scholarship	Loyola Stritch
Board of Trustees Award	Michigan State
MSU Distinguished Scholarship	Michigan State
Department of Physiology Award for Academic Excellence	Michigan State
Dean's List (all semesters)	Michigan State
MSU Honors College	Michigan State

PROFESSIONAL MEMBERSHIPS

American Society of Human Genetics (ASHG)	2019
International Genetic Epidemiology Society (IGES)	2019
International Society to Advance Alzheimer's Research and Treatment (ISTAART)	2018 – 2019

SERVICE

Population Health Sciences Student Organization , University of Wisconsin, Madison, WI	2017 – 2019
Department Committee student representative	2019 – 2020
Junior student mentor	2019 – 2020

PHS Welcome Day current student panel member	Spring 2019
Epidemiology Steering Committee student representative	2018 – 2019
Wrote PHSSO grant for professional development	Fall 2018
Curriculum Committee student representative	2017 – 2018
PHS Welcome Day Poster Session Abstract Review Committee	2017 – 2019

INTEGSCI 100: Exploring Biology , University of Wisconsin, Madison, WI	Fall 2019
Student poster reviewer	

PREVIOUS EMPLOYMENT

Technical Services , Epic Systems Corporation, Verona, WI	2012 – 2015
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SKILLS

R, python, SAS, Java, C++, BASH, Epic EHR, SNOMED terminologies

REFERENCES

Available upon request