

# Curriculum Vitae

Yong Jin Kweon (Jin Kweon)

Information ----- 1

Interests ----- 1

Education ----- 1

Teaching and Advising ----- 1 ~ 2

Research ----- 2 ~ 3

University Service ----- 3

Professional Service ----- 3 ~ 4

Community Involvement/Service ----- 4

Honors and Awards ----- 4

Grants and Scholarships ----- 4

Skills and Languages ----- 4

Publications ----- 4

Presentations and Posters ----- 4 ~ 5

Referees ----- 5 ~ 6

Social Media ----- 6

- For more non-academic achievements, I would suggest to check out my LinkedIn (pg. 6).

## Information

Born: 24 June 1996, Seoul, Korea.

Citizenship: Korea, Republic of

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## Interests

Multi-Omics integration, Bio-statistics/informatics, Statistical inference/computing, (Linear) modeling and regression, Linear Algebra, Statistical genomics/genetics, Bayesian inference, Nonparametric methods (Mann-Whitney test/Wilcoxon rank sum test), Bootstrapping, Big data analysis, Parameter estimation, Machine learning, Math competitions, World history, Programming languages (Especially R), European soccer (Especially German and Spanish)

## Education

**PhD Candidate in Quantitative Life Science in Progress (Sep, 2018 ~ )**

McGill University, Montreal, Quebec, Canada

\*Leave of absence for the military service – Jun, 2019 ~

**BA in Statistics (Cluster: Mathematics/Economics) in May, 2018**

University of California, Berkeley, California, U.S.

**AS-T in Mathematics and Business Administration & AA-T in Economics in May, 2016**

Diablo Valley College, Pleasant Hill, California, U.S.

**High school in June, 2014**

Bayridge Secondary School, Kingston, Ontario, Canada

## Teaching and Advising

**Stat 133 TA/UGSI (Gaston Sanchez) Jan 2018 – May 2018**

*Statistics Department at University of California, Berkeley*

- Lead 2-hour lab sections twice a week. (Taught 2 labs; thus, 4 hours in total)
- Hold 4-hour of office hours a week.
- Proctor, made, grade midterm and final exams.

**Stat 135 Reader (Adam Lucas) Aug 2017 – Dec 2017**

*Statistics Department at University of California, Berkeley*

- Opportunity to connect with faculty and GSIs.
- Help grade quizzes, exams, and weekly homework.
- Have regular meeting with GSIs and a professor.

**Stat 133 Lab Assistant (Gaston Sanchez) Aug 2017 – Dec 2017**

*Statistics Department at University of California, Berkeley*

- Opportunity to connect with faculty and GSIs.
- Help students do homework and lab assignments in lab hours.

- Tutor R language.
- Experience in helping to educate students on a fundamental statistics topic.
- Opportunity to practice communication skills.
- Experience working in teams.
- Enhanced critical thinking skills.
- Grade R lab assignments according to the professors' rubric.

**Stat 133 Lab Assistant (Adam Lucas) Jan 2017 – May 2017**

*Statistics Department at University of California, Berkeley*

- Opportunity to connect with faculty and GSIs.
- Help students do homework and lab assignments in lab hours.
- Tutor R language.
- Experience in helping to educate students on a fundamental statistics topic.
- Opportunity to practice communication skills.
- Experience working in teams.
- Enhanced critical thinking skills.
- Grade R lab assignments according to the professors' rubric.

**Stat 198 Reader (Mike Leong) Jan 2017 – May 2017**

*Statistics Department at University of California, Berkeley*

- Help grade weekly quizzes and exams.
- Assist Professor Leong to organize the lectures.
- Mentor Stat 134 (Introduction to Probability) students to succeed in the class.

**Haas Young Entrepreneurs at Haas (YEAH)/Boost Mentor Sep 2015 – Dec 2016**

*Haas School of Business at University of California, Berkeley*

- As a mentor, I lead “group 1” of five grade 9 students with another two Berkeley students. I share my experience and guide the younger students to help them achieve their goals.
- As a mentor, I lead a group of grade 11, making presentations with the topic of advocating the needs of education for students.

**Math Lab Tutor May 2015 – Jul 2016**

*Math Lab at Diablo Valley College*

- Training students dropping in 1:1 or in groups for statistics, algebra, trigonometry, and calculus, 5 – 7 hours every week.
- Build great relationships with 200+ students, trying to encourage positive changes in them, in terms of math skills and habits.
- Help keep the math lab tidy and clean for students using the services there.

**Business Lab Tutor Sep 2015 – May 2016**

*Business/Accounting Lab at Diablo Valley College*

- Training students dropping in for managerial & financial accounting, statistics, and macro & micro economics, 3 – 6 hours every week.
- Troubleshoot business-related questions as an evaluator.
- Unlike the math lab tutor, I can also learn from tutees who come from different classes, since many professors do different but related projects for their classes.

## Research

**Statistical Bioinformatics Research under Professor Jeff Xia**  
*McGill University*

**Jan 2019 – May 2019**

- Benchmark mixOmics and OmicsPLS, and extend multi-omics integration.
- Assess the quality of Two-way Orthogonal Partial Least Square (O2PLS) and OnPLS.
- Develop and functionalize useful outputs of O2PLS.
- Develop user-interactive website for multi-omics integration. (O2PLS, Procrustes analysis, Multi-block partial least squares, Multi-block principal component analysis)

### **Neuroimaging Research under Professor Sylvain Baillet      Sep 2018 – Dec 2018**

*Montreal Neurological Institute and Hospital, McGill University*

*(Direct Supervisor: Philippe Albouy)*

- Data analysis for multimodal electrophysiology and imaging such as MEG and EEG combined with MRI.
- Develop automatic work-flow pipeline for analysis on Brainstorm software.
- Analysis on longitudinal study of the “short-term” effects of brain stimulation with steady state visual stimulation on auditory working memory performances in healthy volunteers.
- Conduct new experiment on “long term” effects of brain stimulation with Transcranial Magnetic Stimulation (TMS) on auditory working memory performances in healthy volunteers. (focused on measuring with Electroencephalography [EEG])

### **Conjoint Analysis Research under Professor Philip Stark      Feb 2018 – May 2018**

*University of California, Berkeley*

- Try to prove why conjoint analysis does not logically make sense in the market.

### **Honor Thesis under Professor Rasmus Nielsen      May 2017 – Nov 2017**

*University of California, Berkeley*

- Use Shell script to run fastsimcoal2 to simulate huge amounts of genomic and genetic data.
- Analyze data with Qpwave and Qpadam.

### **Research Intern under Professor Heather Haveman      Feb 2017 – Dec 2017**

*University of California, Berkeley*

*(Direct Supervisor: Jaren Haber)*

- Work for Charter Schools and the Business Age: Manual and CS Coding of Websites for Text Analysis.
- Work with the Python/R coder teams to web-scrape and analyze the websites of every U.S. charter school open today.
- Clean the large data sets of dat, csv, and txt files, into the public readable data, to answer the question: “Which charters survive and thrive in this political climate—those that stress discipline and college-readiness, or those that prioritize independent thinking and socio-emotional development?”

### **Research Intern under Professor Daniel Kammen      Sep 2016 – Dec 2016**

*Renewable and Appropriate Energy Laboratory at University of California, Berkeley*

*(Direct Supervisor: Sergio Castellanos Rodriguez)*

- Work for National Renewable Energy Deployment Research on SWITH project on Mexico region.
- Under professor Daniel Kammen (Professor of Energy and Resources), developing and applying data management skills (using relational database PostgreSQL, Python, Pandas, QGIS, web-scraping, data munging, and data visualization) and gaining exposure to national energy policy.
- Clean large datasets from various sources, and formatting appropriately, using R and Git.
- Build up different statistical analyses for the appropriate modeling of hydropower in Mexico.
- Build up analytical predictions for the future hydro-plant power generations.
- Wrote a scientific research paper on methods of forecasting future hydro-power generations.

## University Service

**Stat 133 Final Exam Proctor**      **Dec 15 2017**

*Department of Statistics, University of California, Berkeley*

**Disabled Students' Program (DSP) Note-taker**      **Jan 2017 – Aug 2017**

*DSP office at University of California, Berkeley*

**Associated Students of University of California Finance Associate Director**      **Sep 2016 – Dec 2016**

*Administrative Department at University of California, Berkeley*

**Associated Students at Diablo Valley College (ASDVC)**      **Aug 2014 – May 2016**

*PR & Activity, Diversity, Legislative, College Success, Curriculum, Budget Committee at Diablo Valley College*

**Disability Support Services (DSS) Note-taker**      **Jan 2015 – May 2016**

*DSS office at Diablo Valley College*

## Professional Service

**Machine Learning Internship**      **May 2017 – Aug 2017**

*IPMD*

**CFO/Co-Founder**      **Nov 2012 – June 2017**

*Onbi, Smartphone Application Co*

**Marketing Internship**      **Oct 2014 – Jan 2015**

*Transamerica*

## Community Involvements/Service

**Soccer Assistant Coach**      **Jul 2015 – Oct 2015**

**Haiti Missionary**      **Aug 2015**

**Diablo Valley College Alpha Gamma Sigma Honor Society Permanent Member**

## Honors and Awards

- High Distinction in general scholarship level at graduation, May 2018.
- Honors to date and Dean's Honors list for Fall 2017.
- Honors to date for Spring 2017.
- Academic Honors for Fall 2014 – Spring 2016.
- Associate Student at Diablo Valley College (ASDVC) Perfect Attendance Trophy, in Spring 2016.
- Earned the 1st place at Diablo Valley College for the contest of AMATYC, in Spring 2016.
- Award of Excellence: Diversity Committee (ASDVC), in Fall 2015.
- National Founding Contest 2nd Place for Onbi project, in Dec, 2014.
- Placed in the top 7.3% in the Euclid contest, run by Waterloo University, in 2014.
- Placed in the top 15 candidates in my district, qualifying to go to Penn State for a national math contest, in 2014.

## Grants and Scholarships

Yong Jin Kweon: CV

- Korean Canadian Scholarship Foundation (KCSF) Galleria Supermarket Scholarship, \$2,500 (Mar 2019; awarded in May 2019)
- McGill Quantitative Life Science Department Stipend, \$20,000 CAD (Sept 2018 – Aug 2019)
- Berkeley International Office Grant/Scholarship, \$3,283 USD (Spring 2018).
- Statistics Department Award/Grant, \$6,315 USD (Spring 2018).
- DVC Retiree's Association Transfer Scholarship, \$1,000 USD (Spring 2016).
- DVC Math Department AMATYC contest winner scholarship, \$150 USD (Spring 2016).

## Skills and Languages

- Proficient in R.
- Intermediate in Python, SQL, and Latex.
- Familiar with MATLAB, Java, CSS, HTML, C++, XML, UNIX/Linux, Git, and Mathematica.
- Fluent in Korean (able to teach Korean) and English. Studied Chinese and French (Creole).
- Proficiency in Windows, Microsoft Office (Word, Excel, and PowerPoint).
- Familiar with Photoshop.

## Publications

To be updated...

## Presentations and Posters

Albouy, P., Martinez-Moreno Z., **Kweon, Y.J.**, Zatorre, R.J., Baillet, S. (2018). Driving working memory with visual rhythmic stimulations. IDRC workshop. Montreal, Canada, Oct. 22 2018.

Albouy, P., **Kweon, Y.J.**, Whittaker, H., Baillet, S., Zatorre, R.J. (2018). Enhancing learning-related plasticity with information based neuromodulation. Auditory learning and plasticity symposium. Montreal, Canada, Oct. 23 2018.

## Referees

### • Philippe Albouy, Assistant Professor

Department of Neurology and Neurosurgery, McGill University (Postdoc)

Xxxxx (Assistant Professor)

[philippe.albouy@mail.mcgill.ca](mailto:philippe.albouy@mail.mcgill.ca)

### • Sylvain Baillet, Professor

Department of Neurology and Neurosurgery

Department of Biomedical Engineering

Department of Computer Engineering

McGill University

[sylvain.baillet@mcgill.ca](mailto:sylvain.baillet@mcgill.ca)

### • Nike Sun, Assistant Professor

Department of Statistics

University of California, Berkeley

[nikesun@berkeley.edu](mailto:nikesun@berkeley.edu)

### • Oscar Madrid Padilla, Neyman Vising Assistant Professor

Department of Statistics

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 University of California, Berkeley  
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● **Gaston Sanchez, Lecturer**

Department of Statistics  
 University of California, Berkeley  
[gasigiri@berkeley.edu](mailto:gasigiri@berkeley.edu)

● **Hermann Helmut Pitters, Neyman Visiting Assistant Professor**

Department of Statistics  
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● **Dora Argueta-Rico, Math Lab Advisor**

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[DArgueta@dvc.edu](mailto:DArgueta@dvc.edu)

● **James Magee, Lecturer**

Department of Mathematics  
 Diablo Valley College  
[JMagee@dvc.edu](mailto:JMagee@dvc.edu)

● **Clint Ryan, Lecturer**

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● **Kevin Powell, Business Lab Advisor**

Business Lab  
 Diablo Valley College  
[KPowell@dvc.edu](mailto:KPowell@dvc.edu)

● **Will Parks, Lecturer**

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 Diablo Valley College  
[WParks@dvc.edu](mailto:WParks@dvc.edu)

## Social Media

● **Website**

<https://yjkweon24.wixsite.com/yongjinkweon>  
<https://yjkweon24.github.io/>

● **Github**

<https://github.com/yjkweon24>

● **LinkedIn (For more non-academic achievements, I would suggest to check out my LinkedIn)**

<https://www.linkedin.com/in/jin-kweon-5b687a103>