

# Chakree Piyanuluk

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## Education

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### University of California, Berkeley

- Bachelor of Science in Microbial Biology

Berkeley CA  
May 2020 (Expected)

## Work Experience

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### Nestle Research Assistant

Lipase Inactivation Research Program

Alt.Meat X Lab at the University of California, Berkeley

*Nestle prefers kitchen-shelf ingredients. Patatin meets this criterion, but its lipase cleaves short-chain fatty acids, adversely affecting taste. Research focuses on eliminating lipase activity while maintaining functionality.*

- Selected from 60-person applicant pool
- Team of 4 leader in coordinating meetings, chemical purchases, and experimental planning
- Research potato protein literature and design experiments to identify approaches to eliminate lipase activity

Berkeley, CA  
September 2019 - Present

### Mycology Research Assistant

Bruns Lab at the University of California, Berkeley

*Monterey pine requires rhizopogons to survive. Research focuses on identifying its colonization rate.*

- Executed fungal DNA collection and extraction for amplification via PCR
- Analyzed results via gel electrophoresis of 300+ root tip samples
- Worked alongside a traveling scholar and the PI on pine seedling root tip analysis

Berkeley, CA  
March 2019 - December 2019

### Entomology Research Assistant

Daane Lab at the University of California, Berkeley

*Grapevine red blotch disease (GRBD) requires replacing infected vines and causes significant economic damage to vineyards. Research focuses on identifying the specific insect transmission vector.*

- Collaborated with 2 lab partners and collected insect data from 5 vineyards in Napa and Sonoma: collected samples of insects present at each location, analyzing trends of insect prevalence across time periods.
- Assisted in collecting, starting, and maintaining 6 colonies of scaphytopius, the primary suspected vector

Berkeley, CA  
June 2019 - August 2019

### Microbiology and Chemistry Laboratory Student Assistant

Diablo Valley College

Tutored ~20 students on laboratory technique

- Prepared experiments for students with 2 lab partners: staining microbes on slides for use under microscopes, preparing agar plates, growing and maintaining bacteria colonies, preparing reagents
- Partnered with lab coordinator to design and document new experiments

Pleasant Hill, CA  
January 2016 - June 2018

## Other skills

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- Proficient in Excel / Google Sheets, Word / Google Docs, PowerPoint
- Fluent in English and Thai