

# DAVID ČERNÝ

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**Address** Henry Hinds Laboratory  
5734 South Ellis Avenue  
Chicago, IL 60637-1468

**Email** [davidcerny@uchicago.edu](mailto:davidcerny@uchicago.edu)  
**Website** [davidcerny.github.io](https://davidcerny.github.io)

## Education

2018–Present Ph.D. student in Geophysical Sciences; University of Chicago  
2014–2018 B.S. (Honors) in Ecology, Behavior, and Evolution; University of California, Los Angeles

## Research Experience

### Fall 2018–Present: Slater Lab

Affiliation: Department of Geophysical Sciences, University of Chicago  
Position: Ph.D. student  
Ph.D. advisor: Graham J. Slater

### Fall 2015–Summer 2018: Alfaro Lab

Affiliation: Department of Ecology and Evolutionary Biology, University of California, Los Angeles  
Position: Undergraduate research assistant  
Principal investigator: Michael E. Alfaro  
Projects: Phylogenomic divergence dating of vertebrates; Exploration of form-function mapping using a C++ simulation of polygenic trait evolution

### Winter 2018: Field & Marine Biology Quarter in Mo'orea

Affiliation: Department of Ecology and Evolutionary Biology, University of California, Los Angeles  
Position: Undergraduate student  
Principal investigator: Daniel T. Blumstein  
Project: Applying Lanchester's laws to the interspecific competition of coral reef fish

### Summer 2017: Kondrashov Lab

Affiliation: Evolutionary Genomics Group, Centre de Regulació Genòmica (Centre for Genomic Regulation), Barcelona, Spain  
Position: Research intern  
Principal investigators: Fyodor Kondrashov, Dinara Usmanova  
Project: Detecting positive selection using molecular phylogenies

## Publications

### Peer-reviewed publications

2019 Friedman M, Feilich KL, Beckett HT, Alfaro ME, Faircloth BC, Černý D, Miya M, Near TJ, Harrington RC. Ancient adaptive radiation in the open ocean: rapid divergence in Pelagiaria (Acanthomorpha: Percomorpha) near the Cretaceous-Palaeogene boundary. *Proceedings of the Royal Society B* 286(1910): 20191502. [doi:10.1098/rspb.2019.1502](https://doi.org/10.1098/rspb.2019.1502)

- 2018 Černý D, Lee K, Medal J, Blumstein DT. Applying Lanchester's laws to the interspecific competition of coral reef fish. *Behavioral Ecology* 30(2): 426–433. [doi:10.1093/beheco/ary182](https://doi.org/10.1093/beheco/ary182)
- 2018 Lima MGM, de Sousa e Silva-Júnior J, Černý D, Buckner JC, Aleixo A, Chang J, Zheng J, Alfaro ME, Martins A, Di Fiore A, Boubli JP, Lynch Alfaro JW. A phylogenomic perspective on the robust capuchin monkey (*Sapajus*) radiation. *Molecular Phylogenetics and Evolution* 124: 137–50. [doi:10.1016/j.ympev.2018.02.023](https://doi.org/10.1016/j.ympev.2018.02.023)
- 2018 Alfaro ME, Faircloth BC, Harrington RC, Sorenson L, Friedman M, Thacker CE, Oliveros CH, Černý D, Near TJ. Explosive diversification of marine fishes at the Cretaceous-Paleogene boundary. *Nature Ecology and Evolution* 2: 688–96. [doi:10.1038/s41559-018-0494-6](https://doi.org/10.1038/s41559-018-0494-6)

## Other publications

- 2018 Černý D. [Review of] *Birds of Stone: Chinese Avian Fossils from the Age of Dinosaurs*. *Fossil News*, Summer 2018: 23–27.

## Presentations and posters

- 2019 Černý D, Madzia D, Slater GJ. Inferring macroevolutionary dynamics of extinct clades: a test using 'bird-hipped' dinosaurs (Ornithischia). Evolution, June 21–25, Providence, RI.
- 2018 Černý D, Lee K, Medal J, Blumstein DT. A fish eat fish world: Applying Lanchester's laws of combat to the interspecific competition of coral reef fish. 21st UCLA Annual Biology Research Symposium, May 23, Los Angeles, CA. (Poster)
- 2016 Černý D, Alfaro ME. Phylogeny and divergence times of tetraodontiform fishes based on a new multi-locus dataset. 19th UCLA Annual Biology Research Symposium, May 11, Los Angeles, CA. (Poster)

## Fellowships

- 2018–Present Neubauer Family Distinguished Doctoral Fellowship (Neubauer Family Foundation)
- 2014–2018 Bakala Foundation Scholarship (Bakala Foundation)
- Winter 2018 A. R. Wallace Scholarship for International Field and Marine Research (Department of Ecology and Evolutionary Biology, UCLA). \$350
- Summer 2016 Whitcome Undergraduate Summer Research Fellowship. *Inferring the evolutionary timescale of tetraodontiform fishes (Acanthomorpha: Eupercarcia)*. (Department of Ecology and Evolutionary Biology, UCLA). \$3,000

## Teaching

- Fall 2019, Fall 2018 PHSC 10800: Earth as a Planet: Exploring Our Place in the Universe (teaching assistant)
- Spring 2019 PHSC 11000: Environmental History of the Earth (teaching assistant)
- Winter 2019 GEOS 27300/13900: Biological Evolution (teaching assistant)

## Professional Organizations

- 2017–Present Society of Systematic Biologists (student member)

## Skills

Computing	Bash shell scripting
	Computer programming (R, Python; C++)
	Document markup (Markdown, XML, L <sup>A</sup> T <sub>E</sub> X)
Languages	Fluent in Czech
	Good understanding of written scientific Spanish and Russian
	Basic knowledge of Latin

Last updated November 24, 2019