

# Diego E. Kleiman

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## Education

### University of Illinois at Urbana-Champaign (UIUC)

*Ph.D. in Biophysics and Quantitative Biology, GPA: 4.0/4.0*

Concentration: Computational Science and Engineering

**Urbana, IL, USA**

*Expected 2025*

### New York University in Abu Dhabi (NYUAD)

*Bachelor of Science, Physics + CS (minor), GPA: 3.9/4.0*

Honors: *Magna Cum Laude*, NYU Founders' Day Award, Member of Phi Beta Kappa

**Abu Dhabi, UAE**

*May 2020*

### Escuela Normal Juan Pascual Pringles

*Secondary School Diploma, GPA: 9.8/10*

Honors: *Valedictorian*

**San Luis, Argentina**

*November 2014*

## Publications

- Kleiman, D. E., & Shukla, D. (2022). Multi-Agent Reinforcement Learning-based Adaptive Sampling for Conformational Sampling of Proteins. *bioRxiv*.
- He, W., Naleem, N., Kleiman, D. E., & Kirmizialtin, S. (2022). Refining the RNA Force Field with Small-Angle X-ray Scattering of Helix-Junction-Helix RNA. *The journal of physical chemistry letters*, 13(15), 3400-3408.
- Zhao, C., Kleiman, D. E., & Shukla, D. (2021). Intriguing Role of Water in Plant Hormone Perception. *bioRxiv*.

## Academic Conferences & Symposia

### Oral Sessions

- Multi-agent Reinforcement Learning Based Adaptive Sampling of Conformational Free Energy Landscapes of Proteins. **American Chemical Society Fall 2022 Meeting**. Chicago, IL, USA. August 21-25, 2022.

### Poster Sessions

- Optimization of Hydration Sites in Plant Hormone Receptors for Agrochemical Design. **66th Annual Meeting of the Biophysical Society**. San Francisco, CA, USA. February 19-23, 2022.
- Exploring the Ion-Mediated RNA Interactions of a Helix-Junction-Helix RNA Model Through Well-Tempered Metadynamics Simulations. **64th Annual Meeting of the Biophysical Society**. San Diego, CA, USA. February 16, 2020.
- Manta Rover: an Automated System for Coral Reef Remediation. **New York University 2018 Undergraduate Research Session**. New York, NY, USA. August 3, 2018.
- E. coli LAMP: A portable device for rapid detection of Shiga toxin-producing *Escherichia coli*. **International Genetically Engineered Machine (iGEM) Competition**. Boston, MA, USA. November 9-13, 2017.

## Awards & Recognition

### New York University Tandon School of Engineering

*Undergraduate Summer Research Program Fellowship*

**New York, NY, USA**

*June 2018*

### 6th Annual UAE Undergraduate Research Competition

*Finalist*

**Abu Dhabi, UAE**

*April 2018*

### International Genetically Engineered Machine (iGEM) Competition

*Gold Medal*

**Boston, MA, USA**

*November 2017*

### International Biology Olympiad

*Representative of Argentina (second best in country). Bronze Medal (position 105/238).*

**Bali, Indonesia**

*July 2014*

## Teaching

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### University of Illinois at Urbana-Champaign (UIUC)

*BIOP-401: Introduction to Biophysics*

Teaching Assistant (confirmed appointment)

Urbana, IL

Fall 2022

## Short Courses & MOOCs

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### International School for Advanced Studies (SISSA)

*Summer School*

Classical Molecular Dynamics for Material Science, Nanotechnology, and Biophysics

Trieste, Italy

June 2019

### Coursera

*Online Coursework*

Deep Learning Specialization by deeplearning.ai

Remote

2018

## Software Skills

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### Programming languages

Python, C/C++, Matlab, Mathematica.

### Numerical computing

NumPy, SciPy.

### Data visualization

Matplotlib, Seaborn, gnuplot, xmgrace.

### Machine learning

Scikit-Learn, TensorFlow, Keras, OpenCV.

### Data mining

Beautiful soup, Pyppeteer.

### Operative systems

Unix, macOS, Windows.

### Molecular dynamics and bioinformatics

OpenMM, GROMACS, VMD, BioPython.

### Web development

HTML, CSS, Flask.

### Database development

MongoDB, SQL, Pandas.

### General

MS Office 365, Google Docs, Prezi, VLEs.

## Other Work in Education & Outreach

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### University of Illinois at Urbana-Champaign

*WYSE Camp Counselor, STEM outreach for underrepresented students in engineering*

Urbana, IL

July 2022

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*WYSE Camp Counselor, STEM outreach for underrepresented students in engineering*

Urbana, IL

July 2021

### International Biology Olympiad Group Challenge

*Group Project Facilitator, team received Award of Excellence*

Nagasaki, Japan (remote position)

July–October 2020

### Addicest.com

*SAT Tutor*

Rabat, Morocco (remote position)

June–July 2020

### Academic Enrichment Program at NYUAD

*Mathematics Tutor*

Abu Dhabi, UAE

November 2019–February 2020

### Preparation Course for Medical School Admission Test at UNCuyo

*Official Physics and Biology Tutor*

Mendoza, Argentina

June 2015–January 2016

## Leadership & Community Engagement

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### The Anchorage Society: Student-Run LGBTQ+ Organization at NYUAD

*Treasurer*

Abu Dhabi, UAE

August 2019–May 2020

## Languages

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**English** fluent. **Spanish**: native fluency. **French**: fluent (written), intermediate (oral).