**Peiyuan Huang**

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**EDUCATION**

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| **Chinese University of Hong Kong** | Hong Kong SAR, China |
| Ph.D. Candidate, Biomedical Engineering | 2019–2023 |
| **University of Texas Southwestern Medical Center** | Dallas, United States |
| Graduate Student, Biomedical Engineering | 2017–2018 |
| **Nanjing University** | Nanjing, China |
| B.Sc., Chemistry | 2013–2017 |

**RESEARCH EXPERIENCES**

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| **Chinese University of Hong Kong** | Hong Kong SAR, China |
| Junior Research Assistant, advisor: Dr. Liting Duan | 2018–2019 |
| **University of Geneva** | Geneva, Switzerland |
| Visiting undergraduate student, advisor: Dr. Eric Bakker | 2016 |

**PUBLICATIONS**

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| 5. | **Huang, P.**, Zhao, Z. & Duan, L.\* (2022). Optogenetic activation of intracellular signaling based on light-inducible protein-protein homo-interactions. ***Neural regeneration research****, 17*(1), 25-30. [doi.org/10.4103/1673-5374.314293](https://doi.org/10.4103/1673-5374.314293) |
| 4. | Song, Y., **Huang, P.**, Liu, X., Cui, B. & Duan, L.\* (2021). Light-inducible deformation of mitochondria in live cells. ***Cell chemical biology****,* online.  [doi.org/10.1016/j.chembiol.2021.05.015](https://doi.org/10.1016/j.chembiol.2021.05.015) |
| 3. | **Huang, P.**, Liu, A., Song, Y., Hope, J. M., Cui, B. & Duan, L.\* (2020). Optical activation of TrkB signaling. ***Journal of molecular biology****, 432*(13), 3761-3770.  [doi.org/10.1016/j.jmb.2020.05.002](https://doi.org/10.1016/j.jmb.2020.05.002) |
| 2. | **Huang, P.**, Song, Y., Zhang, N., Zhao, Z. & Duan. L.\* (2020). Optogenetics based on light-gated protein-protein interactions and its applications (invited review). ***Chinese journal of lasers****, 47*(2), 0207010.  [doi.org/10.3788/CJL202047.0207010](http://dx.doi.org/10.3788/CJL202047.0207010) |
| 1. | Xu, J., **Huang, P.**, Qin, Y., Jiang, D.\* & Chen, H. Y. (2016). Analysis of intracellular glucose at single cells using electrochemiluminescence imaging. ***Analytical chemistry****, 88*(9), 4609-4612. [doi.org/10.1021/acs.analchem.6b01073](https://doi.org/10.1021/acs.analchem.6b01073) |

**EXTRACURRICULAR ACTIVITIES**

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| **Chinese University of Hong Kong** *Teaching Assistant* | 2019–2021 |
| * Taught 100+ hours lessons in 3 courses, supervised 8 undergraduate student portfolios and theses | |
| **United to Serve, UT Southwestern** *Team Leader, Committee Member* | 2017–2018 |
| * Facilitated 6 monthly group discussions for 100+ high school teenagers with topics on nutrition, drug/alcohol, and mental health. Recruited 8 volunteers for designing core curriculums | |
| * Shaped a health fair with fun experiments in need of K-12 science education for 200+ children | |
| **Students' Association Union, Nanjing University** *Manager of General Office* | 2013–2015 |
| * Organized 50+ bi-weekly meetings with responsibility of interdepartmental coordination | |
| * Set up 2 recruiting events for nearly 100 associations among 6 local universities each year | |

**PRESENTATIONS**

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| --- | --- |
| Hong Kong Inter-University Postgraduate Symposium in Biochemical Sciences | 2021 |
| Research Poster Exhibition 2021 for CUHK postgraduates | 2021 |
| CUHK Engineering HK PhD Fellowship Summer Workshop | 2019 |

**HONORS AND AWARDS**

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| 3rd prize, The 6th Hong Kong University Student Innovation and Entrepreneurship Competition | | 2020 |
| Marie Skłodowska-Curie Actions Research and Innovation Staff Exchange (RISE) | 2016 | |
| The People's Scholarship in China | 2014, 2015 | |
| 1st prize, Chinese Chemistry Olympiad | 2013 | |