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"Everything happens for a reason"



Personal Details

Languages English, Vietnamese, Python, Julia, C/C++.

Possessions A joyful family and my own bicycle.

Education

2018 – 2023 Ph.D., Institute of Physics, Polish Academy of Sciences in Physics.

Thesis title: "Influence of the ribosome on protein ejection and folding".

Supervisors: **Prof. Edward P. O'Brien** (Penn State University) and **Prof. Dr. hab. Mai**

Suan Li.

2015 – 2017 M.Sc., Vietnam National University-University of Science in Physics.

Supervisor: Prof. Toan T. Nguyen.

2011 – 2015 **B.Sc., Vietnam National University-University of Science** in Physics.

Talented Program of Physics

Supervisor: Prof. Toan T. Nguyen.

Honors and Awards

2021 Creative Youth" Award of Vietnam Association of Science and Technology in Poland.

The second prize "Student - Scientific Researching" Conference of Faculty of Physics, VNU-US.

PetroVietnam Scholarship.

Research Publications

Journal Articles

- Halder, R., Nissley, D. A., Sitarik, I., Jiang, Y., Rao, Y., **Vu**, **Q. V.**, Li, M. S., Pritchard, J., & O'Brien, E. P. (2023). How soluble misfolded proteins bypass chaperones at the molecular level. *Nature Communications*, 14(1), 3689. Https://doi.org/10.1038/s41467-023-38962-z
- Vu, Q. V., Nissley, D. A., Jiang, Y., O'Brien, E. P., & Li, M. S. (2023). Is Posttranslational Folding More Efficient Than Refolding from a Denatured State: A Computational Study. *The Journal of Physical Chemistry B*, 127(21), 4761–4774. Phttps://doi.org/10.1021/acs.jpcb.3c01694
- Vu, Q. V., Sitarik, I., Jiang, Y., Yadav, D., Sharma, P., Fried, S. D., Li, M. S., & O'Brien, E. P. (2022). A Newly Identified Class of Protein Misfolding in All-atom Folding Simulations Consistent with Limited Proteolysis Mass Spectrometry. bioRxiv. 6 https://doi.org/10.1101/2022.07.19.500586
- Dang, L. P., Nissley, D. A., Sitarik, I., **Vu**, **Q. V.**, Jiang, Y., Li, M. S., & O'Brien, E. P. (2021). Synonymous mutations can alter protein dimerization through localized interface misfolding involving self-entanglements. *bioRxiv*, 2021.10.26.465867. Https://doi.org/10.1101/2021.10.26.465867

- Leininger, S. E., Rodriguez, J., Vu, Q. V., Jiang, Y., Li, M. S., Deutsch, C., & O'Brien, E. P. (2021). Ribosome Elongation Kinetics of Consecutively Charged Residues Are Coupled to Electrostatic Force. *Biochemistry*, 60(43), 3223–3235. https://doi.org/10.1021/acs.biochem.1c00507
- Nissley, D. A., **Vu**, **Q. V.**, Trovato, F., Ahmed, N., Jiang, Y., Li, M. S., & O'Brien, E. P. (2020). Electrostatic Interactions Govern Extreme Nascent Protein Ejection Times from Ribosomes and Can Delay Ribosome Recycling. *Journal of the American Chemical Society*, 142(13), 6103–6110.

 6 https://doi.org/10.1021/jacs.9b12264