Quyen V. Vu

"EVERYTHING HAPPENS FOR A REASON"

PERSONAL DETAILS

Birth	August 28, 1993
Languages	English, Vietnamese, C/C++, Python, Julia
Assets	A happy family and private bicycle
Personal Blog	`https://qvv5013.github.io/`
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EDUCATION

Grad Student 10/2018-9/2023

Institute of Physics, Polish Academy of Sciences

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

Supervisor: Prof. Edward P. O'Brien and Prof. Dr. hab. Mai Suan Li

Major: Theoretical Physics

Master of Science in Physics 2015-2017

Vietnam National University-University of Science (VNU-US)

Bachelor of Science in Physics 2011-2015

Vietnam National University-University of Science (VNU-US), Talented Program of Physics

HONORS AND AWARDS

1. "Creative Youth" Award of Vietnam Association of Science and Technology in Poland for 2021.
2. The second prize "Student - Scientific Researching" Conference of Faculty of Physics, VNU-US, April 2015.
3. PetroVietnam Scholarship 2015.

PUBLICATIONS

1. **Vu, Q. V.;** Sitarik, I.; Jiang, Y.; Yadav, D.; Sharma, P.; Fried, S. D.; Li, M. S.; O'Brien, E. P. A Newly Identified Class of Protein Misfolding in All-Atom Folding Simulations Consistent with Limited Proteolysis Mass Spectrometry. bioRxiv 2022. https://doi.org/10.1101/2022.07.19.500586.
2. Dang, L. P.; Nissley, D. A.; Sitarik, I.; **Vu, Q. V.;** Jiang, Y.; Li, M. S.; O'Brien, E. P. Synonymous Mutations Can Alter Protein Dimerization through Localized Interface Misfolding Involving Self-Entanglements. bioRxiv 2021, 2021.10.26.465867. https://doi.org/10.1101/2021.10.26.465867.

3. Halder, R.; Nissley, D. A.; Sitarik, I.; Jiang, Y.; Rao, Y.; **Vu, Q. V.;** Li, M. S.; Pritchard, J.; O'Brien, E. P. How Soluble Misfolded Proteins Bypass Chaperones at the Molecular Level. Nat. Commun. 2023, 14 (1), 3689.

4. **Vu, Q. V.;** Nissley, D. A.; Jiang, Y.; O'Brien, E. P.; Li, M. S. Is Posttranslational Folding More Efficient Than Refolding from a Denatured State : A Computational Study. J. Phys. Chem. B 2023, 127 (21), 4761–4774.

5. Leininger, S. E.; Rodriguez, J.; **Vu, Q. V.;** Jiang, Y.; Li, M. S.; Deutsch, C.; O'Brien, E. P. Ribosome Elongation Kinetics of Consecutively Charged Residues Are Coupled to Electrostatic Force. Biochemistry 2021, 60 (43), 3223–3235.

6. **Vu, Q. V.;** Jiang, Y.; Li, M. S.; O'Brien, E. P. The Driving Force for Co-Translational Protein Folding Is Weaker in the Ribosome Vestibule Due to Greater Water Ordering. Chem. Sci. 2021, 12 (35), 11851–11857.

7. Nissley, D. A.; **Vu, Q. V.;** Trovato, F.; Ahmed, N.; Jiang, Y.; Li, M. S.; O'Brien, E. P. Electrostatic Interactions Govern Extreme Nascent Protein Ejection Times from Ribosomes and Can Delay Ribosome Recycling. J. Am. Chem. Soc. 2020, 142 (13), 6103–6110.
