HUONG (IVY) THI HUYNH NGUYEN

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SUMMARY: Possesses impeccable analytical and extensive computational problem-solving skills using R and Python packages for data interpretation and Tableau for data visualization. Excellent oral and written communication skills with numerous peer-reviewed publications.

EDUCATION:

- Ph.D. candidate in Chemistry, Expected March, 2018
  Dr. Frantisek Turecek Research Group
  University of Washington, Seattle
- Business Analyst nanodegree, **Udacity** December, 2017
- Data Analyst nanodegree**, Udacity** April, 2017
- M.S. Degree: Computational and Analytical Chemistry, Cont. to Ph.D.
  University of Washington, Seattle
- B.S. Degree: Chemistry May, 2013
  Minors: Mathematics and Applied Scientific Computing
  California Lutheran University, Thousand Oaks, CA

COMPUTATIONAL SKILLS:

- Matlab
- Microsoft Excel
- SQL
- Time-series models
- A/B testing
- LINUX/UNIX
- R
- Python
- Molecular Dynamics simulations
- Tableau
- Alteryx
- CSS, HTML

DATA ANALYTIC PROJECTS:

- ***Project 1:*** The Titanic Survival Rate: the mysterious facts!
  https://github.com/HuongIvyNguyen/titanic-survival/blob/master/titanic_data_analysis.ipynb
- ***Project 2:*** Open Street Map: West Seattle data wrangling and exploration
  https://github.com/HuongIvyNguyen/OSM_west_seattle
- ***Project 3:*** Investigating the Financial Contributions to the 2016 Presidential Campaign within the Washington State
  https://github.com/HuongIvyNguyen/2016_Presidential_Campaign
- ***Project 4:*** Identifying Fraud from the Enron Email dataset
  https://github.com/HuongIvyNguyen/enron_fraud/blob/master/Enron_Fraud_Report.ipynb
- ***Project 5:*** Evaluating U.S. Domestic Flight Performance from 2015-2015
  https://github.com/HuongIvyNguyen/flight_performance
- ***Project 6:*** Design and Analyze A/B Testing: a case of the Udacity Free Trial Screener
  https://github.com/HuongIvyNguyen/A-B_testing

BUSINESS ANALYTICS PROJECTS:

- ***Project 1:*** Generating performance reports for a wholesaler
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project2
- ***Project 2:*** Data visualization using Tableau
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project3
- ***Project 3:*** Identifying creditworthy customers for loan applications using classification models
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project4
- ***Project 4:*** A/B testing a new menu launch
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project5
- ***Project 5:*** Forecasting video game sales using time-series models
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project6
- ***Project 6:*** Segmenting new stores using K-mean clustering method. Predicting sales of the new stores using historical sale data from present stores of the same segment.
  https://github.com/HuongIvyNguyen/udacity_business_analyst/tree/master/project7

AWARDS/SCHOLARSHIPS:

- Graduate Student Merit Fellowship, University of Washington, 2016
- Graduate Assistant Fellowship, University of Washington, 2013-present
- Eugene S. Mindlin Endowed Fellowship in Chemistry, University of Washington, 2013-2014
- California Wellness Fellowship recipient, California Lutheran University, Summer 2012
- Alvin E. Walz Chemistry Scholarship, California Lutheran University, September 2011
- Swenson Fellowship recipient, California Lutheran University, Summer 2011

PUBLICATIONS:

- Marek, A., **Nguyen, H. T.**, Brož, B., & Tureček, F. (2018). Stereospecific control of peptide gas-phase ion chemistry with cis and trans cyclo ornithine residues. *Journal of Mass Spectrometry*, *53*(2), 124-137.
- Korn, J. A., Urban, J., Dang, A., **Nguyen, H. T.,** & Turecek, F. (2017). UV-Vis Action Spectroscopy Reveals a Conformational Collapse in Hydrogen-Rich Dinucleotide Cation Radicals. *The Journal of Physical Chemistry Letters*.
- **Nguyen, H. T.,** Andrikopoulos, P. C., Bim, D., Rulisek, L., Dang, A., & Turecek, F. (2017). Radical Reactions Affecting Polar Groups in Threonine Peptide Ions. *The Journal of Physical Chemistry B*.
- **Nguyen, H. T.,** & Tureček, F. (2017). Near-UV Photodissociation of Tryptic Peptide Cation Radicals. Scope and Effects of Amino Acid Residues and Radical Sites. *Journal of the American Society for Mass Spectrometry*, 1-12.
- **Nguyen, H. T.,** Shaffer, C. J., Pepin, R., & Tureček, F. (2015). UV action spectroscopy of gas-phase peptide radicals. *The journal of physical chemistry letters*, *6*(23), 4722-4727.
- Shaffer, C. J., Marek, A., **Nguyen, H. T.,** & Tureček, F. (2015). Combining near-UV photodissociation with electron transfer. Reduction of the diazirine ring in a photomethionine-labeled peptide ion. *Journal of the American Society for Mass Spectrometry*, *26*(8), 1367-1381.
- **Nguyen, H. T.,** Shaffer, C. J., & Tureček, F. (2015). Probing peptide cation–radicals by near-uv photodissociation in the gas phase. Structure elucidation of histidine radical chromophores formed by electron transfer reduction. *The Journal of Physical Chemistry B*, *119*(10), 3948-3961.

- **Nguyen, H. T.,** Shaffer, C. J., Ledvina, A. R., Coon, J. J., & Tureček, F. (2015). Serine effects on collision- induced dissociation and photodissociation of peptide cation radicals of the z+●-type. *International journal of mass spectrometry*, *378*, 20-30.
- Weber, A. M**., Nguyen, H. T. H.**, & Hanrahan, G. (2014). Metabolic pathway elucidation towards time- and dose-dependent electrophoretic screening of stable oxidative phenolic compounds. *Analytical and bioanalytical chemistry*, *406*(5), 1447-1454.
- **Nguyen, H. T. H**., Arceo, M., Weber, A. M., Springer, R. K., & Hanrahan, G. (2013). Student-Assisted Research-Focused Experiential Learning in the Bioanalytical Chemistry Curriculum. In Teaching Bioanalytical Chemistry (pp. 245-259). American Chemical Society.
- Alvarado, J., Hanrahan, G., **Nguyen, H. T.**, & Gomez, F. A. (2012). Implementation of a genetically tuned neural platform in optimizing fluorescence from receptor–ligand binding interactions on microchips. *Electrophoresis*, *33*(17), 2711-2717.
- Page, T., **Nguyen, H. T. H.**, Hilts, L., Ramos, L., & Hanrahan, G. (2012). Biologically driven neural platform invoking parallel electrophoretic separation and urinary metabolite screening. *Analytical and bioanalytical chemistry*, *403*(8), 2367-2375.

WORK EXPERIENCE:

- ***Research and Teaching Assistant***, September 2013 – Present
  University of Washington, Seattle, WA
- ***Resident Assistant***, August 2010 – May 2013
  California Lutheran University, Thousand Oaks, CA