

Hsiang-Yu Huang (黃翔昱)

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Research Interests:

- Aerosols optical properties and radiative transfer
- Aerosol remote sensing
- Regional Climate and aerosol long-range transport

Education:

- Ph.D. student, Atmospheric Sciences, National Central University, Taiwan, 2020
- M.S., Atmospheric Sciences, National Central University, Taiwan, 2013
- B.S., Earth Sciences, National Taiwan Normal University, Taiwan, 2010

Employment:

08/2020-present Postdoctoral Fellow, Department of Atmospheric Sciences, National Central University, Taiwan.

Course job:

- Collaborative Researcher of “Research and Maintenance at the Lulin and outlying Islands Atmospheric Background Station” project in 2021
- Participate the “Research and Maintenance at the Lulin Atmospheric Background Station” project from 2011 to 2020
- Participate the 7-SEAS/BASELInE (7-South-East Asian Studies/Biomass-burning Aerosols & Stratocumulus Environment: Lifecycles and Interactions Experiment) from 2013 to 2016
- Participate Taiwan outlying islands observation (include Dongsha, Taiping, Dongyin Island) experiment

Publication:

- **Huang, H. -Y.**, S. -H. Wang*, W. -X. Huang, N. -H. Lin, M. -T. Chuang, A. -M. da Silva, and C. -M. Peng (2020), Influence of synoptic-dynamic meteorology on the long-range transport of Indochina biomass burning aerosols, *Journal of Geophysical Research: Atmospheres*, 125(3), e2019JD031260.
- Nguyen, L. S. P., **H.Y. Huang**, T. L. Lei, T. T. Bui, S. H. Wang, K. H. Chi, G. R. Sheu, C. T. Lee, C. F. Ou-Yang, N. H. Lin (2020), Characterizing a landmark biomass-burning event and its implication for aging processes during long-range transport, *Atmospheric Environment*, 117766.
- Wang, S.-H., H.-W. Lei, S. K. Pani, **H.-Y. Huang**, N.-H. Lin, E. J. Welton, S.-C. Chang, and Y.-C. Wang (2020), Determination of Lidar Ratio for Major Aerosol Types over Western North Pacific Based on Long-Term MPLNET Data, *Remote Sensing*, 12(17), 2769.

- Ke L.-J., S.-H. Wang*, **H.-Y. Huang**, Y.-C. Wang, H.-F. Chuang, R.-Y. Hung, Z.-C. You, S.-C. Chang (2018), Observations on atmospheric boundary layer structure using an unmanned aerial system, *Journal of Photogrammetry and Remote Sensing*, 23, 103-113. Doi: 10.6574/JPRS.201803_23(2).0003. (航測及遙測學刊 in Chinese)
- **Huang, H.-Y.** (2013). The Study of atmospheric radiation and aerosol radiative forcing at LABS. Atmospheric Physics, National Central University. (in Chinese)

Conference Presentation:

- **Huang, H.-Y.**, S.-H. Wang, W.-X. Huang, N.-H. Lin, M.-T. Chuang, A. M. Da Silva, C.-M. Peng, (2019) Influence of synoptic-dynamic meteorology on the long-range transport of Indochinese biomass-burning aerosols. 2019 T&T IAC and MAQAS (August 7-10, 2019), Malacca, Malaysia.
- **Huang, H.-Y.**, S.-E. Sun, S.-H. Wang, C.-T. Lee, E. J. Welton, (2018) A closure study on aerosol-radiation interaction under clear sky condition. AGU fall meeting 2018 (December 10-14, 2018), Washington, D.C., USA.
- **Huang, H.-Y.**, S.-H. Wang, W.-R. Huang (2018), Interannual variability of biomass burning activity over Indochina: ENSO teleconnection and regional transport feature. The Seven South East Asian Studies (7-SEAS) Workshop 2018 (November 1-3, 2018), Chiang Mai, Thailand.
- **Huang, H.-Y.**, S.-H. Wang, M.-T. Chuang, A. M. Da Silva, N.-H. Lin (2016), MERRAero simulation of springtime fire smoke over Indochina and its radiative effects. 2016 Theory and Technique, International Aerosol Conference in Vietnam (December 3-4, 2016), Ho Chi Minh City, Vietnam.
- **Huang, H.-Y.**, S.-H. Wang, M.-T. Chuang, A. M. Da Silva, N.-H. Lin (2015), Investigating smoke transport and its radiative effects during the 7-SEAS/BASELInE experiment using the MERRAero. The 13th International Conference on Atmospheric Sciences and Applications to Air Quality (November 11-13, 2015), Kobe, Japan.
- Wang, S.-H., **H.-Y. Huang**, E. J. Welton, B. N. Holben, S.-C. Tsay, N.-H. Lin, D. Giles, S. A. Stewart, S. Janjai, X. A. Nguyen, T.-C. Hsiao, W.-N. Chen, T.-H. Lin, S. Buntoung, S. Chantara, W. Wiriya (2015), Vertical Distribution and Columnar Optical Properties of Springtime Biomass-Burning Aerosols over Northern Indochina during 2014 7-SEAS Campaign. 2015 7-SEAS northern region workshop (October 7-10, 2015), Hanoi, Vietnam.

Conference Presentation (in Chinese):

- **黃翔昱**、王聖翔、黃婉如 (2020), 中南半島生質燃燒活動氣候變化及區域氣候反饋, 109 年天氣分析與預報研討會 (Oct 13-15, 2020), Taipei, Taiwan.
- **黃翔昱**、孫紹恩、王聖翔、李崇德 (2020), 晴空條件下邊界層內氣膠輻射交互作用閉合實驗, 第 27 屆國際氣膠科技研討會 (Sep 25-26, 2020), Yunlin, Taiwan.
- **黃翔昱**、王聖翔、林能暉 (2019), 鹿林山背景站氣膠光學特性長期變化分析: 現地採樣及大氣遙測, 第 26 屆國際氣膠科技研討會 (Oct 4-5, 2019), Tainan, Taiwan.

- **Huang, H.-Y., S.-H. Wang, W.-R. Huang (2019)**, Interannual variability of biomass burning activity over Indochina: ENSO teleconnection and regional transport feature, Climate Hotpot In Action (CHIA) Forum (Feb 9-10, 2019), Taipei, Taiwan.
- **黃翔昱、王聖翔、孫紹恩、李崇德 (2019)**, 晴空條件下氣膠輻射交互作用閉合實驗, 108 年天氣分析與預報研討會 (May 14-15, 2019), Taipei, Taiwan.
- **黃翔昱、王聖翔 (2018)**, 東南亞春季生質燃燒氣膠與區域大氣氣候關係之研究, 第 25 屆國際氣膠科技研討會 (Sep 14-15, 2018), Tainan, Taiwan.
- **黃翔昱、王聖翔、Brent N. Holben、D. Giles、林能暉、S. K. Pani (2017)**, 利用 AERONET 觀測資料估計東南亞生質燃燒期間氣膠化學組成, 第 24 屆國際氣膠科技研討會 (Sep 8-9, 2017), Taichung, Taiwan.
- **Huang, H.-Y., S.-H. Wang, M.-T. Chuang, A. M. da Silva, N.-H. Lin (2017)**, MERRAero simulation of springtime fire smoke over Indochina and its radiative effects, 2017 年大氣科學學門研究成果發表會 (Feb 9-10, 2017), Miaoli, Taiwan.
- **黃翔昱、王聖翔、周明達 (2016)**, 利用輻射傳送模式及 CERES 衛星觀測估計台灣雲與氣膠輻射效應, 第 23 屆國際氣膠科技研討會 (Sep 23-24, 2016), Taipei, Taiwan.
- **黃翔昱、王聖翔、黃威巽、莊銘棟、Arlindo M. da Silva、林能暉 (2015)**, 利用 NASA/MERRAero 探討東南亞生質燃燒污染物長程傳送及輻射效應, 第 22 屆國際氣膠科技研討會 (Oct 2-3, 2015), Miaoli, Taiwan.