**Yung-Chang Chen**

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| **Email:** | ycchen0422@gmail.com |
| **Date of birth:** | 22 April 1979 |
| **Nationality:** | Taiwan |
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| **EDUCATION** |  |
| Apr 2010 - Nov 2016 | Chair of Environmental Meteorology, Faculty of Environmental and Natural Resources, Albert-Ludwigs-University of Freiburg, Germany |
|  | Title: Dr. rer. nat. |
|  | Dissertation: “Modification and adjustment of Physiologically Equivalent Temperature for universal applications”Supervisor: Prof Andreas MatzarakisDissertation defense on 20 June 2016Grade: Magna cum laude |
|  |  |
| Oct 2001 - Jun 2004 | National Taiwan University |
|  | MSc Atmospheric Science |
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| Oct 1997 - Jun 2001 | National Taiwan University |
|  | BSc Atmospheric Science |
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| Sep 1994 - Jun 1997 | Taipei Municipal Jianguo High School, Taipei City |
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| **EMPLOYMENT** |  |
| Feb 2017 - present | Research Center for Environmental Changes, Academia Sinica, Taipei, Taiwan |
|  | Postdoctoral Research Fellow |
|  | Interaction of meteorological boundary layer and air pollution |
|  | Study of the human biometeorology and urban climate |
|  | Realization of the meteorological boundary layer with PALM-model |
|  | Field measurement of mega-city in Taichung |
|  |  |
| Apr 2010 - Nov 2016 | Chair of Environmental Meteorology, Albert-Ludwigs-University of Freiburg |
|  | Doctorand |
|  | Maintained and revision of RayMan |
|  | Appendance of the thermal indices for RayMan: Perceived Temperature, Universal Thermal Climate Index, modified Physiologically Equivalent Temperature |
| Apr 2007 - Jul 2008 | Research Center for Environmental Changes, Academia SINICA, Taipei, Taiwan |
|  | Research Assistant |
|  | Maintenance of solar-radiation measurement station |
|  | Analysis of observation data |
|  | Evaluation of the air quality for Olympic Game 2008, with College Of Environmental Sciences, Beijing University |
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| Mar 2006 - Feb 2007 | National Taiwan University, Taipei, Taiwan |
|  | Research Assistant |
|  | Maintenance of weather station |
|  | Analysis of observation data |
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| Jul 2004 - Nov 2005 | Republic of China Navy, Kaohsiung, Taiwan |
|  | Weather Officer, Ensign |
|  | Weather Forecast |
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| **ADDITIONAL SKILLS** |  |
| **Computing** | Word-processing: Highly competent user of Microsoft Word |
|  | Program language: Highly experienced user of Python, Delphi, R, FORTRAN and MySQL |
|  | Others: PALM-LES model, WRF, Photoshop, Weather forecast, Mobile or stationary Weather station, CIMEL sun photometer, and Radio sounding station |
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| **Languages** | Chinese: | Native speaker |
|  | English: | Fluent |
|  | German: | Fluent |

**Publications**

Chen, Y.-C.; Chen, W.-N.; Chou, C.C.-K.; Matzarakis, A. (2020) Concepts and New Implements for Modified Physiologically Equivalent Temperature. Atmosphere, 11, 694. (DOI:10.3390/atmos11070694).

Lin, T. P.; Yang, S. R.; Chen, Y. C.; Matzarakis, A. (2019) The potential of a modified physiologically equivalent temperature (mPET) based on local thermal comfort perception in hot and humid regions. Theoretical and Applied Climatology, 135, 873–876. (DOI: 10.1007/s00704-018-2419-3).

Chen, Y.-C.; Matzarakis, A. (2018) Modified physiologically equivalent temperature – basics and applications for western European climate. Theoretical and Applied Climatology, 132, 1275–1289. (DOI: 10.1007/s00704-017-2158-x).

Chen, Y.-C.; Matzarakis, A. (2014) Modification of physiologically equivalent temperature. *Journal of Heat Island Institute International*, 9, 26-32.

Chen, Y.-C.; Lin, T.-P.; Matzarakis, A. (2014) Comparison of mean radiant temperature from field experiment and modelling: a case study in Freiburg, Germany. Theoretical and Applied Climatology 118, 535–551. (DOI: 10.1007/s00704-013-1081-z).

Chen, Y.-C.; Lin, P.-H.; Matzarakis, A. (2013) Vertical variability of thermal comfort in urban areas: The example of Taipei 101. *Meteorologische Zeitschrift*, 22, 753–759. (DOI: 10.1127/0941-2948/2013/0483).

**Attending conference**

Chen, Y.-C.; Chang, W.-C.; Cheng, C.-K., Tung, C.-H.; Chen, W.-N.; Chou, C.-K.; Matzarakis, A. (2020 March) “Modified Physiologically Equivalent Temperature (mPET) to investigate biometeorological conditions and seasonal power demand in tropic region.” Talking at Symposium on Challenges in Applied Human Biometeorology, Freiburg, Germany.

Chen, Y.-C.; Chou, C.-K.; Chen, W.-N.; Matzarakis, A. (2019 September) “Comparisons of original and improved physiologically equivalent temperatures based on a thermal perception dataset in hot and humid region.” Poster presented at EMS Annual Meeting European Conference for Applied Meteorology and Climatology 2019, Copenhagen, Denmark.

Chen, Y.-C.; Chou, C.-K.; Chen, W.-N.; Chang, S.-Y.; Chang, C.-C. (2018 September) “Large-Eddy-Simulation of pollutant dispersion: comparison with tracer gas field campaign and effect of topography.” Poster at 2018 joint 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference, Takamatsu, Kagawa, Japan.

Chen, Y.-C.; Chou, C.-K.; Chen, W.-N. (2018 September) “Modified Physiologically Equivalent Temperature to realize evaluations of humid-cold and humid-hot conditions.” Poster presented at EMS Annual Meeting European Conference for Applied Meteorology and Climatology 2018, Budapest, Hungary.

Chen, Y.-C.; Matzarakis, A. (2014, October) “Modification of physiologically equivalent temperature.” Talking at 7th Japanese-German Meeting on Urban Climatology.

Chen, Y.-C.; Lin, P.-H.; Matzarakis, A. (2012, August) “The vertical component of urban bioclimate – The Taipei 101 tower.” Poster presented at 8th International Conference on Urban Climates, Dublin, Ireland.

Chen, Y.-C., Lin, P.-H.; Matzarakis, A. (2012, December) “Analyse der vertikalen Komponente des thermischen Bioklimas – Am Beispiel des 101 Turm in Taipei, Taiwan.” Talking at the 9th Deutsch Klima Tagung, Freiburg, Germany.

**Additional Activities**

Member of “Effect of Megacities on the Transport and Transformation of Pollutants on the Regional to Global Scales”-Asia (EMeRGe-Asia) (2018 March- April) (http://www.atmosphere.aero/blog/asian-megacities-pollution-survey/).

Japan-Taiwan Joint Research Project for Young Researchers in Topic: Sustainable energy and cities: a Japan-Taiwan comparative perspective (2018 September - present) (Workshop forming to conduct suggestions of policies). Workshop: 2020, February, Tokyo; 2019, September, Taipei; 2019, February, Tokyo; 2018, October, Tokyo.

03 August 2020

Yung-Chang Chen