



Takuma Morimoto

DPHIL STUDENT, UNIVERSITY OF OXFORD, DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY

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Education

Kitakyushu National College of Technology

ASSOCIATE DEGREE IN ENGINEERING

- Supervisor: Mitsuru Soeda
- Best Grade Award

Kitakyushu, Japan

Apr 2006 - Mar 2011

Chiba University

BACHELOR OF ENGINEERING

- Supervisor: Hirohisa Yaguchi and Yoko Mizokami
- Thesis: Color constancy in 2-D and 3-D scenes
- GPA 3.71, Dean's List

Chiba, Japan

Apr 2011 - Mar 2013

Tokyo Institute of Technology

MASTER OF ENGINEERING

- Supervisor: Keiji Uchikawa and Kazuho Fukuda
- Thesis: Influences of surround stimuli on brown perception and color constancy

Yokohama, Japan

Apr 2013 - Sep 2015

University of Washington

VISITING STUDENT

- Supervisor: Steven L. Buck
- Project: Context effects on brown perception

Seattle, U.S.A

Aug 2013 - Aug 2014

Universtiy of Oxford

DPHIL STUDENT IN EXPERIMENTAL PSYCHOLOGY

- Supervisor: Hannah E. Smithson
- Working Thesis: Colour constancy for glossy objects under complex lighting environment

Oxford, UK

Oct 2016 - PRESENT

Publication

- 2016** Steven L. Buck, Andrew Shelton, Brooke Stoehr, Vina Hadyanto, Miaolu Tang, **Takuma Morimoto**, and Tanner Delawyer, "Influence of surround proximity on induction of brown and darkness," *Journal of the Optical Society of America A*, 33, 12-21.
- 2016** **Takuma Morimoto**, Emily Slezak, and Steven L. Buck, "No effects of surround complexity on brown induction," *Journal of the Optical Society of America A*, 33, 45-52.
- 2016** **Takuma Morimoto**, Kazuho Fukuda, and Keiji Uchikawa, "Effects of surrounding stimulus properties on color constancy based on luminance balance," *Journal of the Optical Society of America A*, 33, 214-227.
- 2016** Tanner DeLawyer, **Takuma Morimoto**, and Steven L. Buck, "Dichoptic perception of brown," *Journal of the Optical Society of America A*, 33, 3, 123-128.
- 2017** Keiji Uchikawa, **Takuma Morimoto**, and Tomohisa Matsumoto, "Understanding individual differences in color appearance of "#TheDress" by the optimal color hypothesis," *Journal of Vision*, 17(8), 1-14.
- 2017** **Takuma Morimoto**, Yoko Mizokami, Hirohisa Yaguchi, and Steven L. Buck, "Color constancy in 2-D and 3-D scenes: Effects of viewing methods and surface texture," *i-Perception*, 8, 6, 1-20.
- 2017** **Takuma Morimoto**, and Hannah E. Smithson, "Discrimination of spectral reflectance under complex environmental illumination," *Journal of the Optical Society of America A*, 35, 4, B244-B255.
- 2018** Joshua Harvey, **Takuma Morimoto**, and Manuel Spitschan, "The neon fruit illusion: a fresh recipe for colour science demonstrations," *Perception*, x, x, xx-xx (in press).

WORKING PAPERS

- xxxx** **Takuma Morimoto**, Robert J. Lee, and Hannah E. Smithson, "When the brightest is not the best: illuminant estimation based on highlight geometry," xx, xxxx. (in preparation).
- xxxx** **Takuma Morimoto**, and Hannah E. Smithson, "Identification of surface colours across complex lighting environments," xx, xxxx. (in preparation).
- xxxx** Hannah E. Smithson, Robert J. Lee, **Takuma Morimoto**, and Joshua Harvey, 'Tutorial: Material Perception'. Journal of the Optical Society of America A, xx, xx-xx. (in preparation).

Honors & Awards

- March 2011** Best Grade Award, Institute of Electronics, Information and Communication Engineers Kyushu Section
- March 2013** Dean's List, Chiba University *GPA 3.71, Best Grade in Department
- August 2015** Colour Group of Great Britain Poster Award, International Colour Vision Society
- November 2015** Best Presentation Award, The Institute of Image Information and Television Engineers, Human Information Society, Japan
- May 2017** Elsevier/Vision Research Travel Award, Vision Science Society
- August 2017** Student Travel Award, International Colour Vision Society
- June 2018** WD Wright Award, Colour Vision Group of Great Britain (Travel Award)
- November 2018** Study Visit Grant, Experimental Psychology Society (Support for Collaborative Research with Sergio Nasicmento at University of Minho)

Conference Presentation

INTERNATIONAL

- Oct 2014** **Takuma Morimoto**, Tanner DeLawyer and Steven L. Buck, "Complex surrounds effects on perception of brown and yellow", Optical Society of America Fall Vision Meeting, Philadelphia, U.S.A <Poster>
- Oct 2014** Steven L. Buck, Vina Hadyanto, Miaolu Tang, **Takuma Morimoto**, "Brown induction is both quick and proximity dependent", Optical Society of America Fall Vision Meeting, Philadelphia, U.S.A <Poster>
- July 2015** **Takuma Morimoto**, Kazuho Fukuda and Keiji Uchikawa, "Influence of the number of surrounding colors on luminance-balance based estimation of illuminant", International Colour Vision Society, Sendai, Japan <Poster> *Colour Group of Great Britain Poster Award
- July 2015** Steven L. Buck, **Takuma Morimoto**, Tanner Delawyer, Brooke Stoehr and Andrew Shelton, "Spatial and temporal influences on brown and yellow", International Colour Vision Society, Sendai, Japan <Poster>
- Oct 2015** **Takuma Morimoto**, Kazuho Fukuda and Keiji Uchikawa, "Luminance-balance based estimation of an illuminant in chromatically biased scenes", Optical Society of America Fall Vision Meeting, San Jose, U.S.A <Poster>
- May 2016** **Takuma Morimoto**, Kazuho Fukuda and Keiji Uchikawa, "Estimating illuminant by optimal color hypothesis model for scenes with various chromaticity-luminance distributions", Vision Science Society, Tampa, U.S.A <Poster>
- May 2016** Tomohisa Matsumoto, **Takuma Morimoto** and Keiji Uchikawa, 'Estimation of illuminant in the white/gold and blue/black "dress" image', Vision Science Society, Tampa, U.S.A <Poster>
- May 2016** Keiji Uchikawa, **Takuma Morimoto**, and Tomohisa Matsumoto, 'Prediction for individual differences in appearance of the dress by the optimal color hypothesis'. Vision Science Society, Tampa,U.S.A <Invited Talk>
- Mar 2017** **Takuma Morimoto**, Robert J. Lee and Hannah E. Smithson, 'When the brightest is not the best: Illuminant estimation based on highlight geometry'. Durham Vision Meeting, Durham, UK <Invited Talk>
- May 2017** **Takuma Morimoto**, Robert J. Lee and Hannah E. Smithson, 'When the brightest is not the best: Illuminant estimation based on highlight geometry'. Vision Science Society, Tampa (2017, May) <Poster> *Elsevier/Vision Research Travel Award
- Aug 2017** **Takuma Morimoto** and Hannah E. Smithson, 'Reflectance discrimination under complex environmental illumination'. International Colour Vision Society, Erlangen, Germany <Poster> *ICVS Student Travel Award
- Oct 2017** Keiji Uchikawa, Kazuho Fukuda, and **Takuma Morimoto**, 'Predicting the luminosity thresholds for chromatic stimuli by the optimal color hypothesis'. Optical Society of America Fall Vision Meeting, Washington D.C., U.S.A <Poster>
- Mar 2018** Joshua S. Harvey, **Takuma Morimoto**, and Hannah E. Smithson, 'Do observers optimise visual search of materials during an illuminant discrimination task?'. The Probabilistic Brain Workshop, Durham University, UK <Poster>
- Mar 2018** Manuel Spitschan, Joshua S. Harvey, **Takuma Morimoto**, and Hannah E. Smithson, 'Real metameric illuminants with maximum melanopsin contrast'. AVA Spring Meeting, Bradford, UK <Talk>
- Aug 2018** **Takuma Morimoto** and Hannah E. Smithson, 'Identifying surface colour across different lighting environments'. European Conference of Visual Perception, Trieste, Italy (2018, August) <Poster> *WD Wright Award, Colour Vision Group of Great Britain
- Sep 2018** Keiji Uchikawa, Masayuki Sato, Shoji Sunaga and **Takuma Morimoto**, 'Estimating illuminant color in a shadow'. Optical Society of America Fall Vision Meeting, Reno, U.S.A <Talk>
- Nov 2018** **Takuma Morimoto** and Hannah E. Smithson, 'Identifying surface colour across different lighting environments'. The Colour Group of Great Briatin Student Award Meeting, London, UK <Invited Talk>

JAPANESE CONFERENCE

- Nov 2012** Takuma Morimoto, Yoko Mizokami and Hirohisa Yaguchi, "The difference of color constancy between a miniature room and its image presented as the same visual angle", Color science association of Japan, Color Vision society, p.21-22, Shinjuku <Talk>
- Jan 2013** Takuma Morimoto, Yoko Mizokami and Hirohisa Yaguchi, "Improvement of color constancy influenced by viewing conditions", Japanese vision science society, Shinjuku <Talk>
- Mar 2013** Takuma Morimoto, Yoko Mizokami and Hirohisa Yaguchi, "The naturalness of environment contributes to color constancy in real spaces and in those images", Color science association of Japan (Kansai Branch), p.21-22, Kitakyushu <Talk>
- Nov 2014** Takuma Morimoto, Steven L. Buck and Keiji Uchikawa, "Influences of different surround stimuli on brown perception", The Institute of Image Information and Television Engineers, Human Information Society, ITE Technical Report, Vol. 38, p.9-12, Kumamoto <Talk> ***Best Presentation Award**
- Jan 2015** Takuma Morimoto, Kazuho Fukuda and Keiji Uchikawa, "Influence of luminance and chromatic shifts of 3-D surround stimuli on color constancy", Japanese vision science society, Vision, Vol. 27, p.22, Shinjuku <Poster>
- Mar 2015** Takuma Morimoto, Steven L. Buck, "Relationship between luminance statistics of surround stimuli and brown perception", Color science association of Japan, Color Vision society, p.13-14, Shinjuku <Talk>
- July 2015** Takuma Morimoto, Kazuho Fukuda and Keiji Uchikawa, "Influence of chromatic bias of scene surfaces on luminance-balance based estimation of illuminant", Japanese vision science society, Vision, Vol. 27, p.120, Ookayama <Poster>
- Sep 2017** Keiji Uchikawa, Takuma Morimoto, Tomohisa Matsumoto, and Kazuho Fukuda "Prediction of color appearance of "#TheDress" based on illuminant estimation by the optimal color hypothesis", Kansei Engineering Society <Talk>

SUMMER SCHOOL ATTENDANCE

- Sep 2018** "European Summer School:Visual Neuroscience Summer School – from spikes to awareness", Rauschholzhausen, Germany

Scholarships

Scholarship for Tokyo Tech Abroad Short Term Education (TASTE)

TOKYO INSTITUTE OF TECHNOLOGY

Aug 2013

- JPY 80,000

Scholarship for Short Term Study Abroad, International Research Opportunities Program (TIROP)

TOKYO INSTITUTE OF TECHNOLOGY

Aug 2013 - July 2014

- JPY 880,000

Doctor Encouragement Scholarship

TOKYO INSTITUTE OF TECHNOLOGY

Oct 2015

- JPY 300,000

New College Student Travel Grant

NEW COLLEGE, UNIVERSITY OF OXFORD

May 2017

- GBP 700

PH.D FUNDING

Aso Scholarship

NEW COLLEGE, UNIVERSITY OF OXFORD

Oct 2016 – Sep 2017, Oct 2018 – Sep 2019

- GBP 33,960

Kikawada Study Abroad Scholarship

KIKAWADA FOUNDATION

Oct 2016 - Sep 2018

- GBP 46,054

Sasakawa Fund Scholarship

ORIENTAL INSTITUTE, UNIVERSITY OF OXFORD

Oct 2018 - Sep 2019, Oct 2019 - Sep 2020

- GBP 20,000

Japanese Student Service Organization Scholarship

JAPANESE STUDENT SERVICE ORGANIZATION

Oct 2018 - Sep 2020

- JPY 7,832,000

Teaching

MATLAB Course(Master), Demonstrator

DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY, UNIVERSITY OF OXFORD

Michaelmas Term 2018

Perception Core Practical(Undergraduate), Demonstrator

DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY, UNIVERSITY OF OXFORD

Michaelmas Term 2018

Journal Review

Journal of the Optical Society of America A

SINCE 2018

i-Perception

SINCE 2016

Work Experience

Nov 2014 – Mar 2016 Research Assistant at Tokyo Institute of Technology

Language

Japanese (Native), English (Fluent: IELTS 7.5, TOEFL ibt 103)