

Chika Inoshita

Address: The Institute of Scientific and Industrial Research, Osaka University
8-1 Mihogaoka, Ibaraki, Osaka, 567-0047, Japan

Email: inoshita@am.sanken.osaka-u.ac.jp

Tel: +81-6-6879-8422

Objective:

To obtain fellowship in Microsoft Research Asia enabling growth and learning opportunities in research and analytic skills.

Interest:

Computer Vision and Image Processing

- Photometric analysis (scattering analysis, shape measurement)
- Physics based Vision
- Computational photography
- Image processing

Education:

- **Enroll Ph.D. Computer Science:** Graduate School of Information Science and Technology, Osaka University, Japan, Projected graduation in March 2015.
Concentration in Computer Vision
- **M.S. Computer Science:** Graduate School of Information Science and Technology, Osaka University, Japan, 2012.
Concentration in Computer Vision
GPA: 3.75/4.0
- **B.S. Computer Science:** School of Engineering Science, Osaka University, Japan, 2010.
Concentration in Image Processing
GPA: 3.6/4.0
- **A.S. Information Engineering:** Takuma National College of Technology, Japan, 2008.
Concentration in Mobile Application
GPA: 3.85/4.0

Experience:

- **Ph. D. research,** Osaka University, Osaka, Japan 4/2012-
 - Join the project "Safe visualization of 3-D human body structure using computational photography" which is granted by the Japan Society for the Promotion of Science (JSPS) through the "Funding Program for Next Generation

World-Leading Researchers (NEXT Program)," initiated by the Council for Science and Technology Policy (CSTP).

- Design image improvement method for foggy image.
- **Master research**, Osaka University, Osaka, Japan 4/2010-3/2012
 - Join the project "Safe visualization of 3-D human body structure using computational photography" which is granted by the Japan Society for the Promotion of Science (JSPS) through the "Funding Program for Next Generation World-Leading Researchers (NEXT Program)," initiated by the Council for Science and Technology Policy (CSTP).
 - Design shape measurement method for translucent objects.
- **Internship**, Panasonic Electric Works Co., Osaka, Japan 8/2010-9/2010
 - Designed the appearance test method for tiny cracks on products.
 - Carried out some experiments to confirm the method and reported my achievement to fellows.
- **Bachelor research**, Osaka University, Osaka, Japan 4/2009-3/2010
 - Worked under advising of Professor Yasushi Yagi and Associate Professor Yasuhiro Mukaigawa.
 - Designed the ringing detector for image deblurring based on PSF analysis.

Publications:

[Journal papers (reviewed)]

1. C. Inoshita, S. Tagawa, M. A. Mannan, Y. Mukaigawa, Y. Yagi, "Full-dimensional Sampling and Analysis of BSSRDF", IPSJ Transactions on Computer Vision and Applications, Vol. 5, pp.119-123, 2013.
2. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Ringing Detector for Deblurring based on Frequency Analysis of PSF", IPSJ Transactions on Computer Vision and Applications, Vol. 3, pp.236-247, 2011.

[International Conference (reviewed)]

1. C. Inoshita, Y. Mukaigawa, Y. Matsushita, Y. Yagi, "Shape from Single Scattering for Translucent Objects", 12th European Conference on Computer Vision (ECCV2012), 2012.

[Workshop (without review)]

1. C. Inoshita, Y. Mukaigawa, Y. Matsushita, Y. Yagi, "Shape Estimation Based on Attenuation of Single Scattering for Translucent Objects", The 7th International Workshop on Robust computer Vision, Jan., 2013.
2. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Shape Estimation Based on Attenuation of Single Scattering", A Joint Workshop between Osaka-Univ. and Peking-Univ. Groups, Jul. 2011.

[Journal papers (reviewed, in Japanese)]

1. C. Inoshita, Y. Mukaigawa, Y. Matsushita, Y. Yagi, "Shape Estimation of Translucent Objects based on Attenuation of Single Scattering", IEICE Transactions on Information

and Systems, Vol. J95-D, No. 8, 2012.

[Domestic conference (reviewed, in Japanese)]

1. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Simultaneous Estimation of Shape and Scattering Parameters based on Single Scattering for Translucent Objects", 15th Meeting on Image Recognition and Understanding (MIRU2012), 2012. (Oral, accepted rate: 37.2%)
2. C. Inoshita, Y. Mukaigawa, Y. Matsushita, Y. Yagi, "Shape Estimation Based on Attenuation of Single Scattering for Translucent Objects", 14th Meeting on Image Recognition and Understanding (MIRU2011), 2011. (Oral, accepted rate: 17.5%)
3. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Ringing Detector for Image Restoration", 13th Meeting on Image Recognition and Understanding (MIRU2010), 2010. (Oral, accepted rate: 27.3%)

[Domestic conference (without review, in Japanese)]

1. C. Inoshita, S. Tagawa, MD. A. Mannan, Y. Mukaigawa, Y. Yagi, "Full-dimensional Sampling and Analysis of BSSRDF", 16 th Meeting on image Recognition and Understanding (MIRU2013), 2013. (Oral, accepted rate: 30.0%) [*MIRU2013 Best Frontier Award*]
2. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Surface Shape Estimation based on Attenuation of Single Scattering for Translucent Objects", Accomplishment Reports on Strategy Project of Nano-Macro Materials / Devices and System Research Alliance, 2012.
3. C. Inoshita, Y. Mukaigawa, Y. Yagi, "Proposal on Ringing Detector for Image Restoration", IPSJ Computer Vision and Image Media, 2010. [*Best award at bachelor thesis session*]

[Magazine (in Japanese)]

1. C. Inoshita, Y. Mukaigawa, Y. Matsushita, Y. Yagi, "Shape Estimation based on Attenuation of Single Scattering in Translucent Objects", Image Laboratory (Japan Industrial Publishing), May, 2013.

Awards:

1. Best Frontier Award in MIRU2013, 8/2013.
2. Microsoft Research Fellowship Nomination Award, 10/2012.
3. Best survey award at young researcher program in MIRU2012, 8/9/2012.
4. Best award at bachelor thesis session in IPSJ Computer Vision and Image Media, 5/28/2010.
5. Encouraging prize in IEE/IPSJ/IEICE: the Regional Branch of Shikoku District, 3/18/2008.

Computer skills:

Languages: C(8 years), Matlab(3), Visual Basic(3), Perl(1), Java(1), Lisp(1), Pascal(1), Prolog(1), Octave(1)

Platforms: Windows(14), Linux[Ubuntu(3), Vine(3)], FreeBSD(1)

Libraries: OpenGL(1), OpenCV(2)

Foreign language skills:

English: TOEIC score 785 (November, 2011)

References:

Yasushi Yagi, Ph.D.

Professor at the Institute of Scientific and Industrial Research, Osaka University.

Address: 8-1 Mihogaoka, Ibaraki, Osaka, 567-0047, Japan

E-mail: yagi@am.sanken.osaka-u.ac.jp

Phone: +81-6-6879-8422

Yasuyuki Matsushita, Ph.D.

Lead researcher at Visual Computing Group, Microsoft Research Asia

Address: 13F, Building 2, No. 5 Dan Ling Street, Haidian District, Beijing, 100080, P.R.China

Email: yasumat@microsoft.com