

# Dong Liu, Ph.D.

## PERSONAL DATA

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WEBSITE: <https://firsthandscientist.github.io>

## WORK EXPERIENCE

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PRESENT	Researcher on Bayesian models and methods, Department of Intelligent Systems
2020 NOV	KTH Royal Institute of Technology, Stockholm, Sweden.
2020 JAN	Algorithm consultant of start-up, <a href="#">SIAJOR</a> Co. Ltd
2018 JAN	A solution provider of artificial intelligent systems.
2016 DEC	Research engineer, standardization of radio access technology
2016 APR	Shanghai Research Institute, Huawei Technologies Co., Ltd

## EDUCATION

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2020 NOV	Ph.D. in Engineering (temporary employee)
2016 DEC	Research in statistical models, Bayesian inference, machine learning Dissertation: <a href="#">Perspectives on Probabilistic Graphical Models</a> Information Science and Engineering, Department of Intelligent Systems School of Electrical Engineering and Computer Science KTH Royal Institute of Technology, Stockholm, Sweden.
2016 MAR	M.Sc.
2013 SEP	<b>Top 5%, Excellent Graduate of Shanghai City in 2016.</b> School of Electrical and Information Engineering Tongji University, Shanghai, China.
2013 JUL	B.E.
2009 SEP	<b>Top 1%, Excellent Graduate of Liaoning Province in 2013</b> Shenyang University of Technology, Shenyang, China

## PRACTICAL SKILLS ([GitHub Profile](#))

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Programming: PYTHON, PYTORCH, BASH, MATLAB, L<sup>A</sup>T<sub>E</sub>X, ,  
Technical skills: I am a superuser and familiar with development environment in Linux.  
Experience in the administration of Linux computational servers of ISE of KTH  
from 2017 to 2020.

## RESEARCH INTERESTS AND SCHOLARSHIPS

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Probabilistic graphical model design, belief propagation/message passing, Bayesian inference and learning technique/methods, sequential data models, machine learning, stochastic geometry and their applications (e.g., [Speech Recognition](#), [Sepsis Detection](#), [Bayesian Classifier](#), [MIMO detection](#)).

Check out [research&development](#) to see more about my recent projects. Recent papers at my [google scholar](#).

Grants & Scholarships:

2019 NOV	Grants, amount $\approx 83k$ SEK.
2017 JAN	Grant from Karl Engvers Foundation, Sweden, 2020.

	Grant from Knut and Alice Wallenberg Foundation "Jubilee appropriation", Sweden, 2019.
	Grant from Ericsson Research Foundation, Sweden, 2019.
	Grant from General Travel Foundation, KTH, Sweden, 2019.
	Gran from IEEE Signal Processing Society Travel Grant, 2019.
2016 DEC	Postgraduate studies scholarships, amount $\approx 55k$ SEK.
2013 AUG	National Scholarship for Postgraduate Studies, China, 2013-2016.
	National Scholarship for Postgraduate, China, 2015.
2013 JUN	Undergraduate studies scholarships, amount $\approx 49k$ SEK.
2009 SEP	National Scholarship for Undergraduates in 2012 and 2011, respectively.
	The First Class Scholarship of Chinese Instrument and Control Society in 2012.
	The Mayor Scholarship of Shenyang City in 2011.
	The Scholarship of Liaoning Provincial Government in 2010.
	The Special Scholarship in 2012, 2011 and the First-class scholarship in 2010, from Shenyang University of Technology.

## TEACHING

2020 SEP	Teaching Assistant
2017 SEP	Graduate course <a href="#">EQ2341 Pattern Recognition and Machine Learning</a> (regularly offer once per year), KTH Royal Institute of Technology, Sweden.
	In charge of tutorials and student projects (speech recognition, song recognition, handwriting character recognition, etc.)
2020 SEP	Supervision of Master Students at KTH
2018 JAN	<a href="#">A. Scotti</a> (topic: graph neural network & approximate message passing), graduated
	<a href="#">A. Ghosh</a> (topic: neural network & hidden Markov model), graduated
	J. Torres (topic: approximate inference & message passing), graduated

## SUMMER SCHOOL

2012 SEP	Chinese Academy of Sciences, China, with scholarship.
2012 AUG	Kochi University of Technology, Kochi, Japan, with scholarship.

## LANGUAGES

MOTHER TONGUE :	Chinese
PROFESSIONAL :	English

## CONTEST AWARDS

2019	The Bronze Award in the 5th China Internet+ University Graduates Innovation & Entrepreneurship Awards.
2014	The First Prize in the National Postgraduate Mathematic Contest in Modeling in China. Top <b>2.45% in 4900</b> teams in China.
2012	The President Award in Fukuda Gold Robot Cup Contest of Shenyang City.
2011	The Grand Prize in Liaoning Contest District of National Undergraduate Electronic Design Contest.
2011	The First Prize in Liaoning Contest District of Chinese Undergraduate Mathematical Contest in 2011 and 2010 respectively.

## REFERENCES

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| Assoc. Prof.<br>Ragnar Thobaben   | School of Electrical Engineering and Computer Science<br>Royal Institute of Technology (KTH), Sweden<br>Office: Room C:738, Malvinas vag 10, Stockholm, SE-100 44, Sweden<br>Email: ragnart@kth.se<br>Phone: +4687908452    |
| Assoc. Prof.<br>Saikat Chatterjee | School of Electrical Engineering and Computer Science<br>Royal Institute of Technology (KTH), Sweden<br>Office: Malvinas vag 10, Stockholm, SE-100 44, Sweden<br>Email: sach@kth.se<br>Phone: +4687908478                   |
| Prof.<br>Mikael Skoglund          | School of Electrical Engineering and Computer Science<br>Royal Institute of Technology (KTH), Sweden<br>Office: Room A:415, Malvinas vag 10, Stockholm, SE-100 44, Sweden<br>Email: skoglund@kth.se<br>Phone: +4687908430   |
| Prof.<br>Erwu Liu                 | School of Electronics and Information Engineering<br>Tongji University, China<br>Office: 4800 Cao'an Highway, Jiading, 201804 Shanghai, China<br>Email: erwu.liu@ieee.org or erwuliu@tongji.edu.cn<br>Phone: +8615800903275 |