

環境科学同窓会通信 第23号

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## 研究経験を活かす場所

宮田理恵（2012年3月生物圏科学専攻博士課程修了、北海道立総合研究機構林業試験場）

修士・博士課程の院生として環境科学院に在籍した6年間、「樹木を構成する当年枝の形態・生理特性は樹高成長に対してどのように応答するか」という課題に取り組みました。夏の調査期間には苫小牧研究林の長期宿舎に滞在して、用事があれば札幌に戻るという生活を続けました。秋冬には屋久島に行き、島時間に合わせた調査生活を送りました。また、札幌や苫小牧の研究室仲間の調査手伝いで道内各地を訪れたり、毎年恒例の毎木調査を研究室あげて行ったりしたことも良い思い出です。指導教員の甲山隆司先生や同じコースなどの教官陣・諸先輩方には、研究に関する知識や技術、研究に対する姿勢などを多く学ばせていただいたこと、厳しくも温かく研究生活を支えてくださったことに心から感謝しています。

大学院修了直後から10年ほど関西の中高一貫校で理科教員として勤め、室内実験・野外実習の実施に注力しました。特に、中高での生態学実習は容易ではないと痛感しましたが、他校の教員仲間も巻き込んで既存教材の改良や新規教材の開拓を継続し、低学年でも実施できる教材を増やしていきました。高校の少人数クラスでは野外調査や室内実験・データまとめ・発表までの一連の流れを行う生態学実習を実施しました。実習中に生き生きと活動する生徒たちを見て、少しは大学院での経験を教育現場で活かせたかなと思いました。現在は研究機関に在籍していますが、一度は教育現場に身を置いた者として今後も科学教育や環境教育に目を向け続け、微力ながら貢献できればと考えています。

## **Enjoying student life at Hokkaido University**

Deha Agus Umarhadi

(Department of Forest Management, Faculty of Forestry, Universitas Gadjah Mada, Indonesia)

In the mid of 2018, a friend of mine just returned to Universitas Gadjah Mada, Indonesia after having a one-semester student exchange at Hokkaido University. Her experience motivated me to pursue my master's degree there. Thanks to Super Global University Scholarship provided by MEXT, I got an opportunity to do my master's degree at the Graduate School of Environmental Science, Hokkaido University starting in October 2019.

Once I heard my friend's story about Hokkaido University, I imagined Hokudai is a big university located in the far north of Japan with an 'everlasting' winter. Having lived in a tropical country for the whole of my life, I was a bit worried about the temperate climate. When I stepped my feet on the island, I realized that the environment was not as bad as I worried about, and I even loved it!

My master's study was under the supervision of Dr. Ram Avtar at Geospatial Laboratory. In this lab, we applied geospatial technology such as satellite imagery and drones to understand the phenomena of Earth's environment. The lab members were so diverse in origin and background. We were coming from Indonesia (me), Malaysia, India, Bangladesh, Vietnam, China, South Africa, and Fiji. Each of us brought distinct ideas and research problems, thus our topics are diverse as well. Our diversity triggered us to share and learn from each other.

Outside the laboratory life, student life in Sapporo was so delightful. Making new friends from across the globe, attending cultural events, and enjoying Hokkaido's nature were such unforgettable pieces to my life.

Hokkaido University is the real incubator for me to start my life as a researcher. In the first month of living in Sapporo, I was directly involved in organizing and participating in Japan-India-Russia Symposium on Geospatial Data for Environmental Monitoring (JIRSGEM)-2019 held by Global Land Programme. Geospatial Laboratory also organized several international symposiums, some of which were unfortunately conducted online due to the COVID-19 outbreak. In the last month of my study, I got an opportunity to deliver hands-on training regarding remote sensing processing that I applied for my master's thesis in Online Workshop "Japan-Russia Collaboration for Ecosystem Monitoring". Those programs allowed me to build networks with other researchers and practitioners in similar fields.

After studying for 2 years as a master's student, I graduated in September 2021. Then, I returned to my previous institution, PUSPICS (Center for Remote Sensing and Integrated Surveys) Universitas Gadjah Mada as a research assistant. In January 2023, I started a new journey as a faculty member (junior lecturer) at the Department of Forest Management, Faculty of Forestry, Universitas Gadjah Mada. Being a faculty member at Universitas Gadjah Mada does not only have to conduct research and teaching but is also required to carry out community service as part of the 3 pillars of higher education in Indonesia.

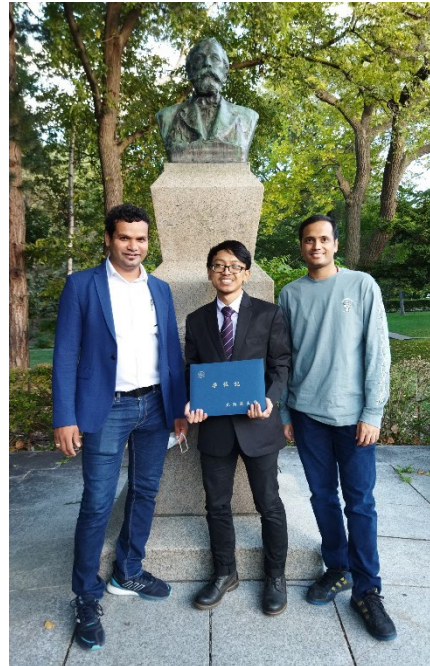
Although it has been nearly 2 years since my graduation, I feel that I still have a strong connection with Hokkaido University, especially with my supervisor and lab mates. We carried out some research collaborations and projects. The recent one is a workshop on UAV for Agriculture Precision, a project led by Dr. Ram Avtar, held at PUSPICS,

Universitas Gadjah Mada, Yogyakarta, Indonesia in March 2023.

I am so grateful to have become a part of Hokkaido University as a student and now as an alumnus.



Autumn photoshoot in the front of EES building



Graduation day



Attending Young Sustainability Symposium (YSS) 2020



Enjoying summer with lab mates in Noboribetsu

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