

## **NCHU Ambassador- 2024 Winter Vacation- International Students' Life Experience**

K. D. Eranda Dhananjaya

### **Empowering Excellence: The Transformative Journey of Studying at National Chung Hsing University**

Over the past five years at National Chung Hsing University (NCHU), my journey through the Department of Applied Mathematics has been nothing short of transformative. Beginning as a master's student in 2019 and seamlessly transitioning into a PhD program under the guidance of a dedicated supervisor, I have experienced immense personal and academic growth. During my time at NCHU, I have had the privilege of immersing myself in a dynamic academic environment that prioritizes excellence in research and scholarship. The Department of Applied Mathematics has been instrumental in nurturing my intellectual curiosity and providing me with the tools and resources necessary to thrive as a researcher.

Through a combination of coursework, seminars, and independent study, I have had the opportunity to explore a wide range of mathematical disciplines, including differential equations, numerical analysis, optimization, and mathematical modeling. These courses have not only expanded my theoretical knowledge but have also equipped me with practical skills that are essential for conducting rigorous research.

One of the highlights of my academic journey has been my involvement in research projects under the guidance of my supervisor. These projects have allowed me to apply theoretical concepts to real-world problems, engage in collaborative problem-solving, and contribute to the advancement of knowledge in my field. Whether it's developing mathematical models to predict complex phenomena or designing algorithms to optimize decision-making processes, each research endeavor has been a valuable learning experience that has deepened my understanding of applied mathematics and honed my analytical abilities.

In addition to honing my theoretical understanding of mathematics, NCHU has also provided me with ample opportunities to develop practical skills in computer programming languages such as MATLAB and R. These languages are indispensable tools for conducting data analysis, numerical simulations, and statistical modeling in the field of applied mathematics.

Through hands-on training and experiential learning, I have become proficient in writing code, debugging programs, and leveraging advanced software libraries to solve complex mathematical problems. Whether it's manipulating matrices in MATLAB to solve systems of linear equations or performing statistical analysis in R to analyze experimental data, these skills have been invaluable assets in my research endeavors and have enhanced my ability to translate theoretical concepts into actionable insights.

My journey at NCHU has not only been about acquiring knowledge but also about sharing it with others. As a teaching assistant, I have had the privilege of guiding and supporting students in their academic journey, helping them navigate complex mathematical concepts and develop problem-solving skills.

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In this role, I have learned how to communicate effectively, tailor instruction to diverse learning styles, and create engaging learning environments that foster collaboration and critical thinking. Whether it's leading tutorials, conducting problem-solving sessions, or providing individualized feedback, each teaching experience has been an opportunity for personal and professional growth, deepening my appreciation for the art of teaching and learning.

National Chung Hsing University (NCHU) is an esteemed institution renowned for its unwavering commitment to academic excellence and innovation. At NCHU, students have access to a diverse array of programs spanning various fields, including science, engineering, agriculture, and humanities, all designed to foster intellectual growth and critical thinking skills. The university's distinguished faculty members, who are leaders in their respective fields, provide students with mentorship and guidance, encouraging them to pursue their passions and excel academically. One of the hallmarks of NCHU is its vibrant research culture, which is supported by state-of-the-art facilities and resources. Students have the opportunity to engage in groundbreaking research projects alongside faculty mentors, gaining valuable hands-on experience and contributing to the advancement of knowledge in their disciplines. Whether conducting experiments in cutting-edge laboratories or exploring theoretical concepts through computational modeling, students at NCHU are empowered to make meaningful contributions to their fields of study. Moreover, NCHU's global reputation for academic excellence attracts a diverse community of students and scholars from around the world. The university fosters a rich cultural exchange environment, where students have the opportunity to learn from their peers, collaborate on projects, and participate in international conferences and workshops. Through partnerships with renowned institutions worldwide, NCHU provides students with opportunities for academic exchange programs and collaborative research initiatives, further enriching their educational experience.

In addition to its academic prowess, NCHU offers a supportive and nurturing learning environment characterized by small class sizes, accessible faculty members, and comprehensive student support services. The university places a strong emphasis on holistic student development, providing ample opportunities for extracurricular involvement, leadership development, and community engagement. Whether participating in student clubs and organizations, volunteering in the local community, or pursuing internships and research opportunities, students at NCHU are encouraged to explore their interests, broaden their horizons, and develop essential life skills.

Furthermore, NCHU's strong ties to industry and government partners provide students with valuable opportunities for internships, cooperative education experiences, and job placements upon graduation. The university's career services office offers comprehensive support to help students navigate the job market, develop professional skills, and secure employment opportunities in their chosen fields.

Located in the picturesque city of Taichung, Taiwan, NCHU boasts a stunning campus environment that inspires creativity, collaboration, and innovation. From its modern academic buildings and research centers to its lush green spaces and recreational facilities, NCHU provides students with an ideal setting for learning, research, and personal growth.

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In summary, National Chung Hsing University offers a transformative educational experience that prepares students to thrive in an ever-changing global landscape. With its emphasis on academic excellence, research innovation, global engagement, and student success, NCHU is truly a world-class institution that empowers students to realize their full potential and make a positive impact on society.

ජාතික Chung Hsing විශ්ව විද්‍යාලයේ (NCHU) පසුගිය වසර පහ පුරාවට, ව්‍යවහාරික ගණිත දෙපාර්තමේන්තුව හරහා මගේ ගමන පරිවර්තනයෙන් අඩුවක් නොවීය. 2019 දී මාස්ටර් ශිෂ්‍යයෙකු ලෙස ආරම්භ වී කැපවූ අධීක්ෂකවරයෙකුගේ මග පෙන්වීම යටතේ ආචාර්ය උපාධි වැඩසටහනකට බාධාවකින් තොරව සංක්‍රමණය වීම, මම අනිවිශාල පුද්ගලික සහ ශාස්ත්‍රීය වර්ධනයක් අත්විඳ ඇත්තෙමි. මම NCHU හි සිටි කාලය තුළ, පර්යේෂණ සහ ශිෂ්‍යත්වයේ විශිෂ්ටත්වයට ප්‍රමුඛත්වය දෙන ගතික අධ්‍යයන පරිසරයක ගිලී යාමේ වරප්‍රසාදය මට ලැබී ඇත. ව්‍යවහාරික ගණිත දෙපාර්තමේන්තුව මගේ බුද්ධිමය කුතුහලය පෝෂණය කිරීමට සහ පර්යේෂකයෙකු ලෙස දියුණු වීමට අවශ්‍ය මෙවලම් සහ සම්පත් මට ලබා දීමට උපකාරී වී ඇත.

පාඨමාලා වැඩ, සම්මන්ත්‍රණ සහ ස්වාධීන අධ්‍යයනයේ එකතුවක් හරහා, අවකල සමීකරණ, සංඛ්‍යාත්මක විශ්ලේෂණය, ප්‍රශස්තකරණය සහ ගණිතමය ආකෘති නිර්මාණය ඇතුළුව, පුළුල් පරාසයක ගණිතමය විෂයයන් ගවේෂණය කිරීමට මට අවස්ථාව ලැබී ඇත. මෙම පාඨමාලා මගේ න්‍යායික දැනුම පුළුල් කරනවා පමණක් නොව දැඩි පර්යේෂණ පැවැත්වීම සඳහා අත්‍යවශ්‍ය ප්‍රායෝගික කුසලතාවලින්ද මා සන්නද්ධ කර ඇත.


මගේ අධ්‍යාපනික ගමනේ එක් විශේෂත්වයක් නම් මගේ අධීක්ෂකවරයාගේ මගපෙන්වීම යටතේ පර්යේෂණ ව්‍යාපෘතිවලට සම්බන්ධ වීමයි. මෙම ව්‍යාපෘති මට සැබෑ ලෝකයේ ගැටලු සඳහා න්‍යායික සංකල්ප යෙදීමට, සහයෝගී ගැටලු විසඳීමේ නිරත වීමට සහ මගේ ක්ෂේත්‍රයේ දැනුම වැඩි දියුණු කිරීමට දායක වීමට මට ඉඩ ලබා දී ඇත. සංකීර්ණ සංසිද්ධි පුරෝකථනය කිරීම සඳහා ගණිතමය ආකෘති සංවර්ධනය කිරීම හෝ තීරණ ගැනීමේ ක්‍රියාවලීන් ප්‍රශස්ත කිරීම සඳහා ඇල්ගොරිතම සැලසුම් කිරීම වේවා, සෑම පර්යේෂණ ප්‍රයත්නයක්ම ව්‍යවහාරික ගණිතය පිළිබඳ මගේ අවබෝධය ගැඹුරු කර මගේ විශ්ලේෂණාත්මක හැකියාවන් ඔප්නැංවූ වටිනා ඉගෙනුම් අත්දැකීමක් විය.

ගණිතය පිළිබඳ මගේ න්‍යායික අවබෝධය ඔප්නැංවීමට අමතරව, MATLAB සහ R වැනි පරිගණක ක්‍රමලේඛන භාෂා පිළිබඳ ප්‍රායෝගික කුසලතා වර්ධනය කිරීමට NCHU මට ඕනෑ තරම් අවස්ථාවන් ලබා දී ඇත. මෙම භාෂා දත්ත විශ්ලේෂණය, සංඛ්‍යාත්මක සමාකරණ සහ සංඛ්‍යාන ආකෘති නිර්මාණය සඳහා අත්‍යවශ්‍ය මෙවලම් වේ. ව්‍යවහාරික ගණිත ක්ෂේත්‍රයේ.

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ප්‍රායෝගික පුහුණුව සහ අත්දැකීම් සහිත ඉගෙනීම තුළින්, මම කේත ලිවීම, වැඩසටහන් නිදොස් කිරීම සහ සංකීර්ණ ගණිතමය ගැටලු විසඳීම සඳහා උසස් මෘදුකාංග පුස්තකාල භාවිතා කිරීමෙහි දක්ෂයෙක් වී ඇත. රේඛීය සමීකරණ පද්ධති විසඳීමට MATLAB හි න්‍යාස හැසිරවීම හෝ පර්යේෂණාත්මක දත්ත විශ්ලේෂණය කිරීම සඳහා R හි සංඛ්‍යානමය විශ්ලේෂණයක් සිදු කළත්, මෙම කුසලතා මගේ පර්යේෂණ ප්‍රයත්නවල මිල කළ නොහැකි වත්කම් වී ඇති අතර න්‍යායාත්මක සංකල්ප ක්‍රියා කළ හැකි දර්ශන බවට පරිවර්තනය කිරීමේ මගේ හැකියාව වැඩි දියුණු කර ඇත. NCHU හි මගේ ගමන දැනුම ලබා ගැනීම පමණක් නොව එය අත් අය සමඟ බෙදා ගැනීම ද විය. ගුරු සහායකයෙකු ලෙස, සිසුන්ට ඔවුන්ගේ අධ්‍යයන ගමනේදී මග පෙන්වීමේ සහ සහාය දැක්වීමේ වරප්‍රසාදය මට ලැබී ඇත, ඔවුන්ට සංකීර්ණ ගණිතමය සංකල්ප සර්සරීමට සහ ගැටළු විසඳීමේ කුසලතා වර්ධනය කිරීමට උපකාරී වේ.

<b>Photos</b>	<b>Brief Introduction</b> (maximum of 100 words per photo)
<p>The illustration depicts my English teacher's polite and thorough instruction on various aspects of English conversation, grammar, and IELTS exam preparation. This opportunity is invaluable for enhancing English proficiency at no cost. Engaging in English conversation practice facilitates cultural exchange and idea-sharing, while targeted preparation for exams like IELTS, TOEFL, and TOEIC ensures</p>	<p>During the OIA-organized food festival, my professor and his wife graciously joined us for the festivities</p>
	

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This is Oscar, my assigned buddy from the Office of International Affairs (OIA). We finally had the chance to meet in person for the first time



This photo captures a moment at the food festival organized by OIA, featuring the Sri Lankan flag and a Sri Lankan food booth.