

留学報告書

1. 報告事項

1.1 研究内容

大学名 : Imperial College London

所属 : Dyson school

指導教員 : Weston Baxter

研究内容 : Digital Psychological Ownership

IROP に参加するにあたり, Dyson school の Weston 教授の元, 研究を行いました.

研究内容としては, Human-Computer Interaction の分野の一つである『デジタルに対する心理的所有感』に関する研究を行いました. この研究は, 図 1 のように, フレームワークを中心として進めていきました. まず, プロジェクトを開始する前に, 『心理的所有感』についての理解を深めるため, いくつかの参考文献を読み, 心理的所有感についての理解を深めました.

次に, フレームワークの具体的な構築に取りかかりました. このフレームワークは, ユーザーがデジタル環境内でどのように心理的所有感を感じるかを理解し, その感覚がユーザーの行動や感情にどのように影響を与えるかを分析することを目的としています. この分析には, 定性的および定量的な手法を併用し, ユーザーインタビューやアンケート調査を実施しました. 表 1 に実際にインタビューに参加していただいた人たちのサマリーを載せています. また, 図 2 に示すように, 特定のデジタルツールやサービスを使用した際の心理的所有感を測定し, その結果をフレームワークに反映させました.

研究の結果, ユーザーがデジタルデータやサービスに対して強い心理的所有感を持つ場合, 利用頻度が増加し, また, 他の競合サービスに対するロイヤリティも向上することが確認されました. これにより, 心理的所有感がユーザーエンゲージメントにおいて重要な役割を果たすことが示されました.

最後に, このフレームワークをさらに発展させるために, 異なるデジタルコンテキストや文化圏での検証を行う必要があると考えています. この研究は, 将来的にデジタルプロダクトデザインやサービス提供の方針に対して新たなインサイトを提供する可能

性があります。

今後の予定としては、教授と博士の方と協働で、論文の投稿を行う予定です。

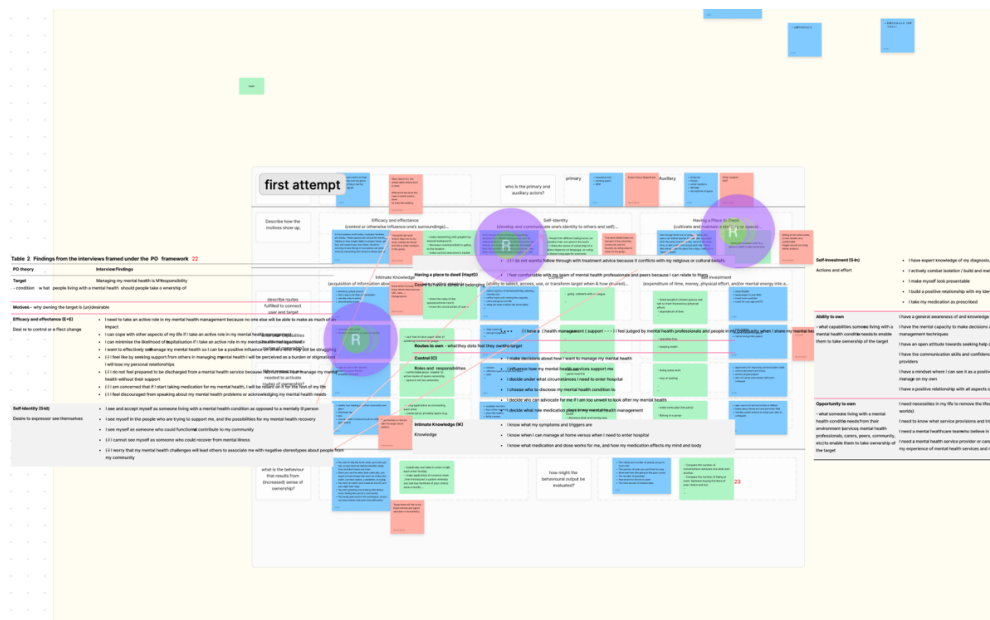


図 1. フレームワーク (イメージ)

表 1. インタビュー参加者のサマリー

Fusion360					
Participant	Gender	Age	Nationality	Education	type of occupation
P1	Male	33	USA	Some College	Civil Engineering
P2	Male	25	Nigeria	Some College	Software Developer
P3	Male	35	USA	Postgraduate degree	Financial Analyst
P4	Male	33	USA	Undergraduate degree	Industrial Designer
P5	Male	50	USA	Undergraduate degree	Business Analyst
P6	Male	33	USA	Undergraduate degree	Forklift Driver
P7	Male	46	USA	Some College	Mechanical Engineer
P8	Male	35	USA	Postgraduate degree	Manufacturing Engineer
P9	Male	42	USA	Some College	Cinematographer
Google Calendar					
P10	Female	44	USA	Undergraduate degree	Teacher
P11	Male	30	USA	Undergraduate degree	Chief Executive Officer
P12	Female	26	USA	Undergraduate degree	Digital Marketing Manager
P13	Female	39	USA	Postgraduate degree	Administrative Assistant
P14	Male	44	USA	Undergraduate degree	Administrator
P15	Female	67	USA	Undergraduate degree	Project Manager
P16	Female	58	USA	Undergraduate degree	Operations Assistant
P17	Female	28	USA	Undergraduate degree	Photographer
P18	Male	39	USA	Postgraduate degree	Physician
LinkedIn					
P19	Female	35	USA	Undergraduate degree	Customer Service Agent
P20	Female	45	USA	Some College	Educator
P21	Female	37	UK	Undergraduate degree	Recruiting Manager
P22	Female	24	India	Undergraduate degree	Teacher
P23	Female	39	USA	Postgraduate degree	Administrative Assistant
P24	Female	42	USA	Postgraduate degree	IT Technician
P25	Female	37	USA	Undergraduate degree	Owner
P26	Female	39	USA	Undergraduate degree	Teacher

IPD framework	
IPD theory	Interview findings
Target Fusion360	Fusion 360 is my service.
Motives →why creating the target to be used describe	
Efficacy and effereance EE+E3 <i>Desire to control or effect change</i>	<ul style="list-style-type: none">Fusion 360 is easy to use, they have a user-friendly knowledge, and is great for collaboration. P1Fusion 360 has a lot of add-ons, compared to other CAD software, which is helpful for my work. P2I used to work with AutoCAD, but Fusion 360 is more intuitive and easier to use. P3Fusion 360 has a lot of add-ons, which is helpful for my work. P4Fusion 360 has a lot of add-ons, which is helpful for my work. P5Fusion 360 has a lot of add-ons, which is helpful for my work. P6Fusion 360 has a lot of add-ons, which is helpful for my work. P7Fusion 360 has a lot of add-ons, which is helpful for my work. P8Fusion 360 has a lot of add-ons, which is helpful for my work. P9Fusion 360 has a lot of add-ons, which is helpful for my work. P10Fusion 360 has a lot of add-ons, which is helpful for my work. P11Fusion 360 has a lot of add-ons, which is helpful for my work. P12Fusion 360 has a lot of add-ons, which is helpful for my work. P13Fusion 360 has a lot of add-ons, which is helpful for my work. P14Fusion 360 has a lot of add-ons, which is helpful for my work. P15Fusion 360 has a lot of add-ons, which is helpful for my work. P16Fusion 360 has a lot of add-ons, which is helpful for my work. P17Fusion 360 has a lot of add-ons, which is helpful for my work. P18Fusion 360 has a lot of add-ons, which is helpful for my work. P19Fusion 360 has a lot of add-ons, which is helpful for my work. P20
Self identity (E-I2) <i>Desire to express or self-actualization</i>	<ul style="list-style-type: none">I changed to Fusion 360 because I wanted to change my work environment. P1I changed to Fusion 360 because I wanted to change my work environment. P2I changed to Fusion 360 because I wanted to change my work environment. P3I changed to Fusion 360 because I wanted to change my work environment. P4I changed to Fusion 360 because I wanted to change my work environment. P5I changed to Fusion 360 because I wanted to change my work environment. P6I changed to Fusion 360 because I wanted to change my work environment. P7I changed to Fusion 360 because I wanted to change my work environment. P8I changed to Fusion 360 because I wanted to change my work environment. P9I changed to Fusion 360 because I wanted to change my work environment. P10I changed to Fusion 360 because I wanted to change my work environment. P11I changed to Fusion 360 because I wanted to change my work environment. P12I changed to Fusion 360 because I wanted to change my work environment. P13I changed to Fusion 360 because I wanted to change my work environment. P14I changed to Fusion 360 because I wanted to change my work environment. P15I changed to Fusion 360 because I wanted to change my work environment. P16I changed to Fusion 360 because I wanted to change my work environment. P17I changed to Fusion 360 because I wanted to change my work environment. P18I changed to Fusion 360 because I wanted to change my work environment. P19I changed to Fusion 360 because I wanted to change my work environment. P20
Having a place to dwell (E-I3D) <i>Desire to have a sense of belonging</i>	<ul style="list-style-type: none">The more companies I use in my work by using Fusion360. P1The more companies I use in my work by using Fusion360. P2The more companies I use in my work by using Fusion360. P3The more companies I use in my work by using Fusion360. P4The more companies I use in my work by using Fusion360. P5The more companies I use in my work by using Fusion360. P6The more companies I use in my work by using Fusion360. P7The more companies I use in my work by using Fusion360. P8The more companies I use in my work by using Fusion360. P9The more companies I use in my work by using Fusion360. P10The more companies I use in my work by using Fusion360. P11The more companies I use in my work by using Fusion360. P12The more companies I use in my work by using Fusion360. P13The more companies I use in my work by using Fusion360. P14The more companies I use in my work by using Fusion360. P15The more companies I use in my work by using Fusion360. P16The more companies I use in my work by using Fusion360. P17The more companies I use in my work by using Fusion360. P18The more companies I use in my work by using Fusion360. P19The more companies I use in my work by using Fusion360. P20
Routes to own →what they do to feel they own the target	
Control (E3) <i>Roles and responsibilities</i>	<ul style="list-style-type: none">I think the best way to use Fusion 360 is to use it as a subscription. P1I think the best way to use Fusion 360 is to use it as a subscription. P2I think the best way to use Fusion 360 is to use it as a subscription. P3I think the best way to use Fusion 360 is to use it as a subscription. P4I think the best way to use Fusion 360 is to use it as a subscription. P5I think the best way to use Fusion 360 is to use it as a subscription. P6I think the best way to use Fusion 360 is to use it as a subscription. P7I think the best way to use Fusion 360 is to use it as a subscription. P8I think the best way to use Fusion 360 is to use it as a subscription. P9I think the best way to use Fusion 360 is to use it as a subscription. P10I think the best way to use Fusion 360 is to use it as a subscription. P11I think the best way to use Fusion 360 is to use it as a subscription. P12I think the best way to use Fusion 360 is to use it as a subscription. P13I think the best way to use Fusion 360 is to use it as a subscription. P14I think the best way to use Fusion 360 is to use it as a subscription. P15I think the best way to use Fusion 360 is to use it as a subscription. P16I think the best way to use Fusion 360 is to use it as a subscription. P17I think the best way to use Fusion 360 is to use it as a subscription. P18I think the best way to use Fusion 360 is to use it as a subscription. P19I think the best way to use Fusion 360 is to use it as a subscription. P20
Intimate Knowledge (E3) <i>Knowledge</i>	<ul style="list-style-type: none">I think I have more intimate knowledge with Fusion 360. P1I think I have more intimate knowledge with Fusion 360. P2I think I have more intimate knowledge with Fusion 360. P3I think I have more intimate knowledge with Fusion 360. P4I think I have more intimate knowledge with Fusion 360. P5I think I have more intimate knowledge with Fusion 360. P6I think I have more intimate knowledge with Fusion 360. P7I think I have more intimate knowledge with Fusion 360. P8I think I have more intimate knowledge with Fusion 360. P9I think I have more intimate knowledge with Fusion 360. P10I think I have more intimate knowledge with Fusion 360. P11I think I have more intimate knowledge with Fusion 360. P12I think I have more intimate knowledge with Fusion 360. P13I think I have more intimate knowledge with Fusion 360. P14I think I have more intimate knowledge with Fusion 360. P15I think I have more intimate knowledge with Fusion 360. P16I think I have more intimate knowledge with Fusion 360. P17I think I have more intimate knowledge with Fusion 360. P18I think I have more intimate knowledge with Fusion 360. P19I think I have more intimate knowledge with Fusion 360. P20
Self investment (E3-I3) <i>Actions and effort</i>	<ul style="list-style-type: none">The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P1The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P2The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P3The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P4The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P5The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P6The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P7The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P8The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P9The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P10The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P11The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P12The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P13The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P14The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P15The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P16The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P17The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P18The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P19The effort I put into learning Fusion 360 is comparable with the effort I put into learning AutoCAD. P20
Transition	<ul style="list-style-type: none">The transition from AutoCAD to Fusion 360 was not too difficult. P1The transition from AutoCAD to Fusion 360 was not too difficult. P2The transition from AutoCAD to Fusion 360 was not too difficult. P3The transition from AutoCAD to Fusion 360 was not too difficult. P4The transition from AutoCAD to Fusion 360 was not too difficult. P5The transition from AutoCAD to Fusion 360 was not too difficult. P6The transition from AutoCAD to Fusion 360 was not too difficult. P7The transition from AutoCAD to Fusion 360 was not too difficult. P8The transition from AutoCAD to Fusion 360 was not too difficult. P9The transition from AutoCAD to Fusion 360 was not too difficult. P10The transition from AutoCAD to Fusion 360 was not too difficult. P11The transition from AutoCAD to Fusion 360 was not too difficult. P12The transition from AutoCAD to Fusion 360 was not too difficult. P13The transition from AutoCAD to Fusion 360 was not too difficult. P14The transition from AutoCAD to Fusion 360 was not too difficult. P15The transition from AutoCAD to Fusion 360 was not too difficult. P16The transition from AutoCAD to Fusion 360 was not too difficult. P17The transition from AutoCAD to Fusion 360 was not too difficult. P18The transition from AutoCAD to Fusion 360 was not too difficult. P19The transition from AutoCAD to Fusion 360 was not too difficult. P20
Other	<ul style="list-style-type: none">The biggest reason I chose Fusion 360 is because it is a subscription. P1The biggest reason I chose Fusion 360 is because it is a subscription. P2The biggest reason I chose Fusion 360 is because it is a subscription. P3The biggest reason I chose Fusion 360 is because it is a subscription. P4The biggest reason I chose Fusion 360 is because it is a subscription. P5The biggest reason I chose Fusion 360 is because it is a subscription. P6The biggest reason I chose Fusion 360 is because it is a subscription. P7The biggest reason I chose Fusion 360 is because it is a subscription. P8The biggest reason I chose Fusion 360 is because it is a subscription. P9The biggest reason I chose Fusion 360 is because it is a subscription. P10The biggest reason I chose Fusion 360 is because it is a subscription. P11The biggest reason I chose Fusion 360 is because it is a subscription. P12The biggest reason I chose Fusion 360 is because it is a subscription. P13The biggest reason I chose Fusion 360 is because it is a subscription. P14The biggest reason I chose Fusion 360 is because it is a subscription. P15The biggest reason I chose Fusion 360 is because it is a subscription. P16The biggest reason I chose Fusion 360 is because it is a subscription. P17The biggest reason I chose Fusion 360 is because it is a subscription. P18The biggest reason I chose Fusion 360 is because it is a subscription. P19The biggest reason I chose Fusion 360 is because it is a subscription. P20

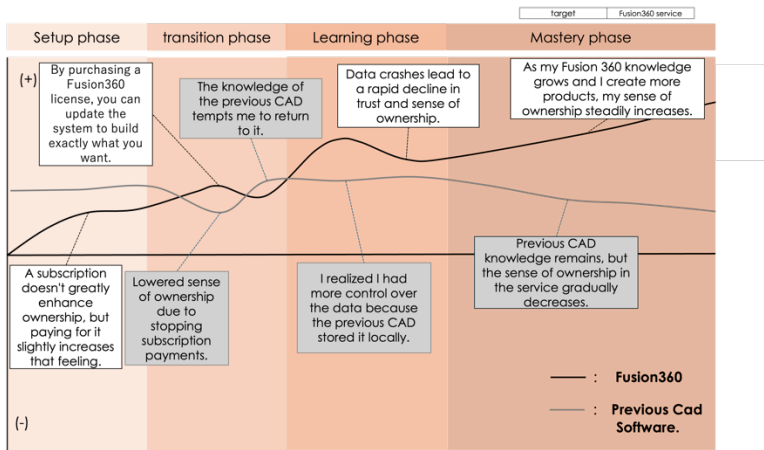


図 2.Fusion360 のサービスに対しての心理的所有感

1.2 IROP 学生間での交流

今回、IROP への参加を決めた最大の理由は、このプログラムを通じて学生同士が交流できる機会があったからです。今回は、5つの大学から学生が各国より集まり、IROPに参加しました。私たちはお互いの研究分野や将来のキャリアについて深く話し合い、それぞれが普段では得られない貴重な情報を共有することができました。

特に、他国から見た日本の文化や研究がどのように評価されているのかを知ることができたことは、非常に有意義でした。また、様々な文化圏の学生たちと触れ合う中で、それぞれの国の文化や知識を吸収する機会が得られ、大変貴重な経験となりました。さらに、ここで築いた人脈は、今後の人生において必ず役立つものと確信しております。また、このような交流を通じて、異なる視点や価値観を学ぶことができたことは、私にとって大きな財産となりました。



写真 1.Imperial College London の様子



写真.2. IROP 集合写真



写真 3.研究室のメンバー



写真 4.IROP の学生との交流

1.2 イギリスでの生活

2ヶ月間ロンドンに滞在しました。英語圏での日常生活を送る中で、スピーキング力とリスニング力が確実に向上したと感じています。さらに、ロンドンの美しい街並みを日常的に楽しむことができ、とても色鮮やかな日々を過ごしました。

インペリアル・カレッジの近くには、3つの大きな博物館があり、すべてを訪れることができました。ヴィクトリア&アルバート博物館では世界の歴史を学び、ロンドン自然史博物館では生物の歴史や化石に触れ、科学博物館では世界の文明の進化を知ることができました。これらのミュージアムは、日本ではなかなか見ることのできない規模と内容で、非常に刺激的で学びの多い施設でした。

これらの貴重な経験は、人生においてそう多く得られるものではないと思います。このような機会を与えてくださった Tazaki 財団の皆様に、心から感謝申し上げます。

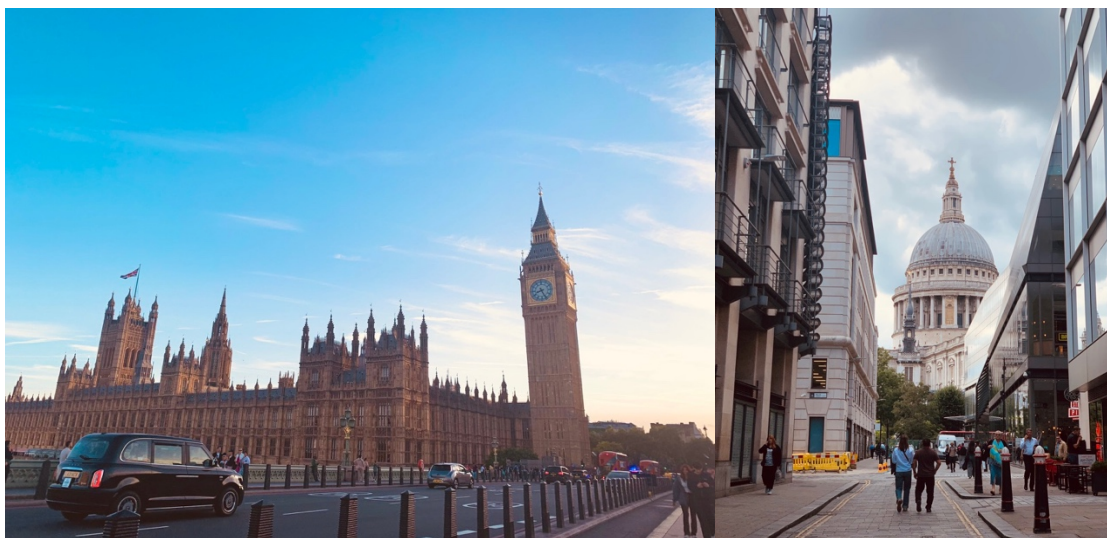


写真 5. ロンドンの街並み

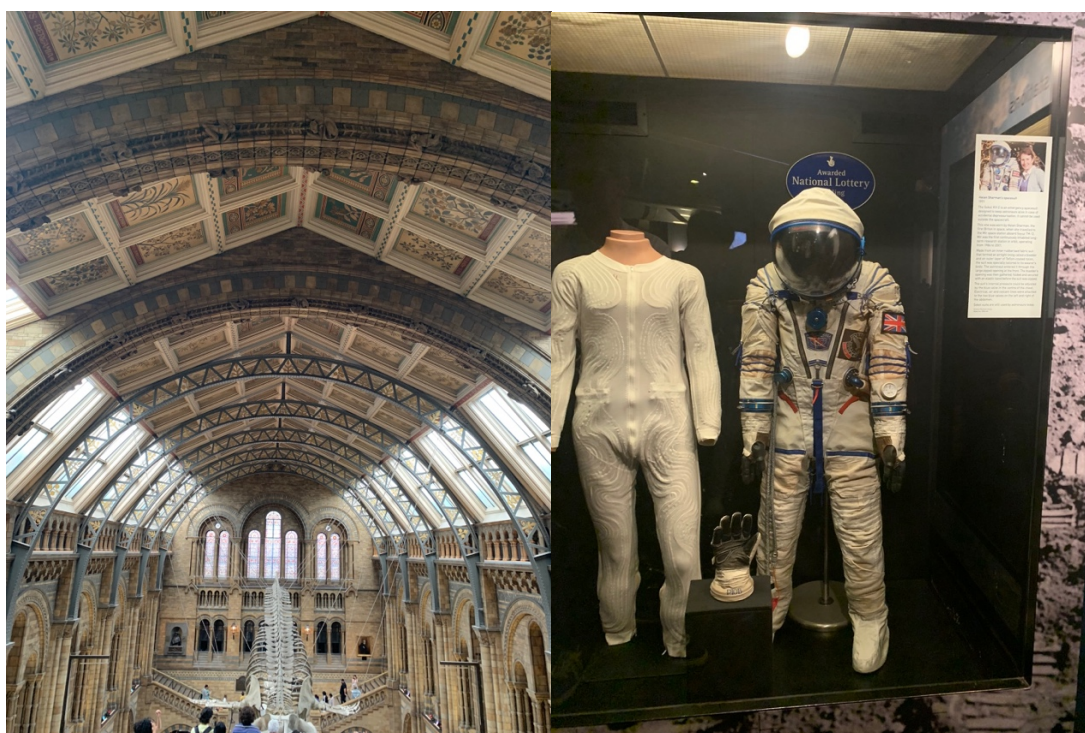




写真 6. 博物館

林 寛隆

謝意

この度は、IROP への参加に際し、Tazaki 財団様より多大なるご支援を賜り、心より感謝申し上げます。貴財団のご支援がなければ、この貴重な留学の機会を得ることはできませんでした。

今回の経験は、私の今後のキャリアを築く上で大変重要な糧となりました。IROP に参加した 5 大学の学生との交流は非常に有意義であり、各大学の情報交換に加えて、将来の進路についてもお互いに意見を交わすことができました。これにより、今後のキャリアに対する視野が大きく広がりました。また、異なる文化や価値観を持つ人々との交流を通じて、自分自身の視野を広げ、新たな発見をすることができました。特に、グローバルな視点で物事を考える力が身についたことは、今回の留学で得た最大の成果の一つと感じております。この経験が将来のキャリアに大いに役立つと確信しております。さらに、IROP を通じて築いた友人関係やネットワークは、今後も続けていきたいと考えております。これらのつながりは、将来的に共同研究やプロジェクトで再び交わる可能性があり、非常に貴重なものだと感じております。今回の留学で得た知識や経験を、今後の学びや仕事に活かし、日本と海外の架け橋となれるよう努めてまいります。

最後に改めて、貴財団からのご支援に深く感謝申し上げます。