

**博士論文審査結果報告**  
**Report on Ph.D. / Doctoral Dissertation Defense**  
**National Graduate Institute for Policy Studies (GRIPS)**  
**Professor Atsushi Sunami**

審査委員会を代表し、以下のとおり審査結果を報告します。

On behalf of the Doctoral Thesis Review Committee, I would like to report the result of the Doctoral Dissertation Defense as follows.

学位申請者氏名 Ph.D. Candidate	TRUR, Aurelie		
学籍番号 ID Number	DOC12101		
プログラム名 Program	公共政策プログラム Public Policy Program		
審査委員会 Doctoral Thesis Review Committee	主査 Main referee	角南 篤 SUNAMI, Atsushi	主指導教員 Main Advisor
	審査委員 Referee	道下 徳成 MICHISHITA, Narushige	副指導教員 Sub Advisor
	審査委員 Referee	諸星 穂積 MOROHOSHI, Hozumi	博士課程委員会委員長代理 Acting Chairperson of the Doctoral Programs Committee
	審査委員 Referee	鈴木 一人, SUZUKI, Kazuto 東京大学公共政策大学院 教授	外部審査委員 EXternal Referee
論文タイトル Dissertation Title (タイトル和訳)※ Title in Japanese	Space Sustainability Governance and the Space Debris Case: A Study of Epistemic Communities' Influences over International Policy Coordination 持続可能な宇宙統治と宇宙ゴミ事例研究：エピステミック・コミュニティの国際的政策調整に対する影響		
学位名 Degree Title	博士（公共政策分析）Ph.D. in Public Policy		
論文提出日 Submission Date of the Draft Dissertation	2020年11月25日	論文審査会開催日 Date of the Doctoral Thesis Review Committee	2020年12月24日
論文発表会開催日 Date of the Defense	2020年12月24日	論文最終版提出日 Submission Date of the Final Dissertation	2021年9月8日
審査結果 Result	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;">合格 Pass</div> <div style="text-align: center;">不合格 Failure</div> </div>		

※ タイトルが英文の場合、文部科学省に報告するため、和訳を付してください

Please add a Japanese title that will be reported to MEXT.

## 1. 論文要旨 **Thesis overview and summary of the presentation.**

The dissertation focusses on the problems of space debris as the major threat to the continued use of outer space also referred to as space sustainability. It also looks into the impact of debris policy efforts over space sustainability progress.

As a debris policy evaluation, it provides a historical look at debris governance since the first efforts observed in the 1970s. Using an international relations' theoretical framework, this dissertation draws upon Peter Haas' seminal work on epistemic communities, and upon Thomas Weiss and Ramesh Thakur's work on global governance to assesses the progress centered around debris governance as a case of global governance and of space sustainability progress. It provides a closer look into several epistemic communities' involvement in debris governance as indicators of space sustainability progress. This progressive change is evaluated according to knowledge, normative, policy, institutional and compliance gaps forming the basis of a global governance regime. The epistemic communities that are examined are the Debris Mitigation, the Long-Term Sustainability, and the Arms Control groups. The framework also considers the dynamics of these communities' involvements in shaping the debris global governance rules and system.

The dissertation confirms a pluri-epistemic involvement of these three main epistemic groups and their significant role as enablers of global space debris governance emergence and consolidation. The study clarifies epistemic communities' dynamics and provides detailed assessment of the global governance progress achieved. Specifically, the study highlights the essential role played by the Debris Mitigation group as catalyzer of the emergence and evolution of a debris regime based upon international and national debris mitigation instruments. The study also reflects on how this Debris Mitigation group benefitted from an earlier Arms Control group's influence on basic space governance rules, and how in turn the Debris Mitigation group

enabled the emergence of another group, namely the Long-Term Sustainability group, further consolidating the regime with additional debris-related instruments.

The dissertation for the purpose of analysis divides the period of the development into an emerging phase and a consolidating phase. The “emerging” phase illustrates early debris instruments and the “consolidating” phase explores comprehensive debris instruments and additional supporting initiatives as well as the growing role of private entities in the governance process especially under the NGO-level.

The thesis also confirms that cooperation was possible even when national security interests are at stake and that the increase of the number of actors provided an opportunity for the progress of debris global governance.

## **2. 審査報告 Notes from the Doctoral Thesis Review Committee (including changes required to the thesis by the referees)**

Among the members of the doctoral thesis review committee, there was a general consensus about the value of the general analysis on the topic. However, the members also shared the same impression that that both the dissertation and the presentation at the defense needed some key clarifications and further explanations of the claims made by the author.

The members made several critical questions and comments regarding the structure of the thesis as well as its usage of the theoretical framework such as constructivism and epistemic community. In addition, the members pointed out some inconsistency in the usage of the terms like “idea” “community” “space governance” and “debris governance”.

Therefore, the members of the committee reached conclusions that major revisions should be made following these comments, and that the members would check a revised version until it is satisfactory.

**3. 最終提出論文確認結果 Confirmation by the Main Referee that changes have been done to the satisfaction of the referees**

Within nine months after the defense, the several revised versions submitted by the candidate were reviewed by the members. For the first two versions, the committee found that the revisions were progressing but still not sufficient. Thus, the committee asked for further revisions. About a months later, the candidate submitted the third revised version. Finally, the committee reviewed the revision again and found it satisfactory. Thus, in September 2021, the final version was submitted.

**4. 最終審查結果 Final recommendation**

The doctoral thesis review committee recommends that GRIPS award the degree of Ph.D. in Public Policy to Ms. Aurélie Trur.