



***Academic Consortium for the 21st Century (AC21)***  
***Special Project Fund***

**Workshop to Develop a Collaborative Research  
Network and Agenda for Antarctic Tourism**

**FINAL PROJECT REPORT**

**October 2022**

**Project Leadership**

Dr. Yu-Fai Leung, PI  
North Carolina State University, USA

Dr. Daniela Cajiao, Project coordinator  
North Carolina State University, USA

**AC21 Partners**

Dr. Daniela Liggett, co-PI  
University of Canterbury, New Zealand

Dr. Chengzhao Wu, co-PI  
Tongji University, China

**Non-AC21 Collaborators**

Dr. Javier Benayas, Universidad Autónoma de Madrid, Spain  
Dr. Pablo Tejedo, Universidad Autónoma de Madrid, Spain  
Dr. Kees Bastmeijer, University of Groningen, the Netherlands  
Dr. Karen Alexander, Heriot Watt University, United Kingdom  
Dr. Hanne Nielsen, University of Tasmania, Australia  
Dr. Gabriela Roldan, Antarctic Heritage Trust, New Zealand  
Dr. Gunter Reck, Universidad San Francisco Quito, Ecuador



## **I. Abstract**

With the support of the AC21 Special Project Fund, this project formed a core research team with eleven researchers from eight academic institutions (including three AC21 Partners) in eight countries to examine the state of research on Antarctica tourism and key research needs. Through this project, we have contributed to the formation of the Antarctic Tourism Action Group (Ant-TAG) under the Scientific Committee on Antarctic Research (SCAR), a new platform to foster further collaboration beyond the AC21 project period. We have also facilitated multiple short-term collaborations that resulted in conference presentations, peer-reviewed publications, and grant proposals. Using online meetings and hybrid workshops, we were able to engage a wider community of Antarctic and protected area researchers and professionals in a Horizon Scan process to identify Antarctic tourism research needs and their priorities for the next 3-5 years.

## **II. Introduction**

Antarctica, the last frontier on earth, is witnessing drastic changes in recent decades due to a variety of global and regional forces such as climate change, fisheries, introduced species, and tourism. The Antarctic Peninsula, for example, is one of the fastest warming regions in the world. Yet, this region accommodates the vast majority of Antarctic tourism operations and activities, which has been steadily increasing and quickly diversifying in terms of tour itineraries and characteristics.

There has been a modest level of research attention devoted to Antarctic tourism, including ecological effects, tourist experiences, sustainable management, and governance and policies. However, this body of research is highly fragmented (Stewart et al., 2017). There remains wide knowledge gaps on many fronts of Antarctic tourism as research efforts are not commensurate with the pace of changes. Filling these key knowledge gaps will inform sustainable management of Antarctic tourism to maximize its positive impacts while minimizing the negative ones. This is a significant undertaking that will only be possible with a strong and sustained network of active researchers collaborating on prioritized research needs.

The AC21 Special Project Fund provides a unique and timely opportunity for convening scholars from AC21 partner institutions with complementary expertise to examine the state of research on Antarctica tourism and key research priorities. The overall goal of this project was to build a community of researchers who collaborate to tackle high-priority knowledge gaps that inform sustainable management of Antarctic tourism. Specific objectives were:

- A) To build a collaborative research network on Antarctic tourism;
- B) To facilitate short-term collaborations, and
- C) To develop a proposed research agenda with community participation through a workshop and online exchange.

Due to the unprecedented disruptions of COVID-19 pandemic, many planned activities supportive of project objectives were delayed between 2020 and 2021. Two project extensions were requested and approved with the current end date of September 30, 2022. With the extended timeline, the project team were able to perform all project activities and accomplish the project objectives, as summarized in the following sections.

### III. Project Activities

During the project period, including its extensions, a total of 12 virtual meetings were held with the project team members. At the initial meetings, potential members for the collaborative research network on Antarctic tourism (CRNAT) were identified and invited to join this initiative, resulting in an 11-member CRNAT core team. At subsequent meetings, the core team identified, aligned, and prioritized research interests and needs through different conceptual exercises. Members of the CRNAT also presented their initiatives on different research topics and interests which resulted in short-term collaborations with specific outputs. At least three virtual meetings were conducted to get specific input from the members, especially for organizing the methods and workshops for developing the Horizon Scan surveys. At the final meetings, the core team met to discuss the Horizon Scan methodology and survey results.

#### A. Build a collaborative research network

Topic	Activities	Outputs
Visibility of the project	Once the project was approved, an online profile was created on ResearchGate to facilitate information regarding the aims of the project and the contacts of the members.	ResearchGate project profile: <a href="https://www.researchgate.net/project/AC21-Antarctic-Tourism-Research-Project">https://www.researchgate.net/project/AC21-Antarctic-Tourism-Research-Project</a>
Adding collaborators to the project	Soon after the inception of the project (with four members), we established contact with other researchers interested and invited them to join the core team.	The project counted a total of 11 core team members representing eight universities from eight countries.
Communicating and reporting progress	During the project, oral presentations at two international conferences were made for communicating and presenting the progress of the project to the Antarctic research community.	Presentation at the SCAR SC-HASS Conference. Kobe, Japan, November 2021 (virtual) -- <i>Academic Consortium 21 (AC21) A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism</i> .  Presentation and the 10 <sup>th</sup> SCAR Open Science Conference.

		India, August 2022 (virtual) -- <i>Academic Consortium 21 (AC21) A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism.</i>
Collaborative network beyond this AC21 project	To foster further collaborations and engage a larger community, four project collaborators in this project team developed a proposal to form the Antarctic Tourism Action Group (Ant-TAG) under the Scientific Committee on Antarctic Research (SCAR). This proposal was endorsed by SCAR's Standing Committee on Humanities and Social Sciences (SC-HASS) and approved by SCAR in 2021. This new action group was introduced to the 44 <sup>th</sup> Antarctic Treaty Consultative Meeting (ATCM) in Berlin, Germany in May 2022.	Contributed to the formation of the Antarctic Tourism Action Group (Ant-TAG). All of the four co-leads of the Ant-TAG are collaborators of this AC21 project.
AC21 Panel session	Held at the virtual SCAR SC-HASS Biennial Conference in November 2021. The purpose was to present the progress and future activities of the project. Five presentations were developed, and a plan for the Horizon Scan process was presented.	Hybrid panel session of the project.

## B. Facilitate short-term collaborations

Topic	Activities	Output
Understanding Chinese tourism in the Antarctic	<p>As part of the short-term collaborations, a pilot survey of Antarctic Chinese tourists was conducted to better understand their perceptions, preferences and experiences.</p> <p>A manuscript on international regulations of Antarctic tourism was developed.</p>	<p>Manuscript reporting the survey results in preparation for submission.</p> <p>A peer-reviewed article was published: Wu, C. et al. In Press. The international agreement on the development and management of global Antarctic tourism (in Chinese). <i>Ocean Development and Management</i>. This paper was presented to the Chinese Polar Program.</p> <p>Presentation at the SC-HASS Biennial Conference. Kobe, Japan, November 2021 (virtual).</p>
The status of knowledge and practice of	An appraisal of the different management instruments and concepts applied to Antarctic	A peer-reviewed article was published: Cajiao et al., 2021. Adaptive management of sustainable tourism in

adaptive management of Antarctic tourism	tourism was completed with the involvement of four members of the CRNAT. Results of this paper were presented at two international meetings.	<p>Antarctica: A rhetoric or working progress? <i>Sustainability</i>, 13(14), Art. 7649.  <a href="https://doi.org/10.3390/su13147649">https://doi.org/10.3390/su13147649</a></p> <p>Presentation at the SCAR SC-HASS Biennial Conference. Kobe, Japan, 2021 (virtual).</p> <p>Presentation and the 10<sup>th</sup> SCAR Open Science Conference. India, August 2022 (virtual).</p>
The state of research on environmental impacts of Antarctic tourism	A review of the environmental tourism impacts in Antarctica was completed during the project period. This involved the collaboration of five members of the CRNAT. Results were published in a peer-reviewed journal and presented at two international meetings.	<p>A peer-reviewed article was published: Tejedo et al., 2022. What are the real environmental impacts of Antarctic tourism? Unveiling their importance through a comprehensive meta-analysis. <i>Journal of Environmental Management</i>, 308, Art. 114634.  <a href="https://doi.org/10.1016/j.jenvman.2022.114634">https://doi.org/10.1016/j.jenvman.2022.114634</a></p> <p>Presentation at the SCAR SC-HASS Biennial Conference. Kobe, Japan 2021 (virtual).</p> <p>Presentation and the 10<sup>th</sup> SCAR Open Science Conference. India, August 2022 (virtual).</p>

### C. Develop a proposed research agenda through community participation

Topic	Activities	Output
Identify research needs and gaps for Antarctic tourism	For identifying the different research needs and gaps regarding Antarctic Tourism a community exercise was conducted. For this, subgroups were organized according to shared interests. The Concept Board online tool was used for gathering and organizing the different ideas. In the end, three different concept boards were produced, and one compromised version was created. This concept board was the base for organizing the Horizon Scan exercise.	<p>Handout with a preliminary prioritization of research needs and interests.</p> <p>Four concept boards outputs contain the different perspectives and research needs among researchers</p>
Horizon Scan of Antarctic Tourism	After deliberation with the members, a methodology for the Horizon Scan was determined. It includes two stages of community participation.	<p>Hybrid workshop held in Potsdam, Germany, May 2022.</p> <p>Two Horizon Scan surveys completed with</p>

	<p>The first stage consisted of a Qualtrics survey to identify tourism research questions among a broader spectrum of participants involved in nature tourism, protected areas, and polar tourism. Results of the first survey were reviewed and consolidated using a hybrid workshop held in Potsdam, Germany, May 2022. This event counted a total of 15 participants.</p> <p>At the second stage, another Qualtrics survey on the prioritization of research topics and questions was launched. A total of 82 responses were collected. Data analyses are complete with manuscript being developed. Results will allow the development of two peer-reviewed manuscripts.</p> <p>Additionally, one management document is expected to be presented at the 45th Antarctic Treaty Consultative Meeting (ATCM) in Helsinki, Finland, June 2023. An abstract for an oral presentation will be submitted for the SC-HASS Biennial conference, Portugal 2023.</p>	<p>two survey databases compiled. Results have been analyzed and are being disseminated in forms of journal manuscripts, an ATCM management document, and conference presentations.</p>
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#### IV. Achievements and Outcomes

This project has provided an excellent opportunity to engage interested researchers and practitioners in a variety of project activities through different channels, including online collaborative tools (e.g., Concept Boards, MURAL), virtual meetings, hybrid workshops, and community surveys. Building upon the three AC21 institutions, NC State, Canterbury, and Tongji, the project brought together a core team, some of whom had not collaborated prior to the project. Through this project experience, our core team fully expects to continue and expand their collaboration well beyond the project completion, through the Ant-TAG and other platforms. For example, building on the spirit of collaboration through this project, our team members were engaged in grant proposal development for the Spanish and Dutch Antarctic research programs. Three Dutch proposals were approved for funding in July 2022.

Another major achievement of this project is a research agenda for Antarctic tourism through a participatory process, involving both the core project team and a broader community with expertise on tourism research in Antarctica and other protected areas. Through the two-stage Horizon Scan process, we were able to identify the top-priority research topics and questions for Antarctic tourism in the next 3-5 years. While some research topics have been advocated by individual researcher, through this project, the urgency of these topics/questions was validated by the Horizon Scan results. We believe that this research agenda will catalyze the discourse on

Antarctic tourism, stimulate collaborative research in the near future, and inform priorities of funding support from the industry, scientific organizations (e.g., SCAR, SC-HASS), National Antarctic Programs, and the ATCM at large.

Our AC21 project has also received a number of recognitions. These include mentions of this project in an Information Paper (IP 75) submitted to 44<sup>th</sup> Antarctic Treaty Consultative Meeting (ATCM) in Berlin, Germany. Our team member Dr. Chengzhao Wu was also invited to present this project and the associated studies at the Chinese Arctic and Antarctic Administration's Headquarters in Shanghai, China.

## **V. Conclusion**

In conclusion, the project team is most grateful for the financial support from the Academic Consortium 21 and their gracious extensions of project timelines. We have achieved our project objectives and made significant advancements toward the ultimate goal. We have contributed: 1) to research on Antarctic tourism through our presentations and publications, 2) to the Antarctic tourism community by offering a proposed research agenda for the next 3-5 years, and 3) to AC21's vision of promoting of cooperation in education and research between members, the bridging between different societies in the world and the delivering of wisdom to all people to mutually understand and share values, knowledge and cultures necessary to improve quality of life and to foster co-existence beyond national and regional boundaries in the 21st century. We believe that polar issues will continue to evolve and research collaborations are much needed to inform policy and management decisions for these global commons. We hope that AC21 will continue to support funding proposals on Antarctic or polar topics which will likely lead to fruitful outcomes.

## **VI. Achievements made within SPF collaboration**

Several of the AC21 partners and non-AC21 collaborators of this project collaborated in a number of grant proposals, three of which were approved by the Dutch Research Council for funding in July 2022. These proposals are entitled: 1) Antarctic tourism - developing knowledge and tools to minimize cumulative impacts on biodiversity and wilderness values in Antarctica, 2) Fostering environmental stewardship among Antarctic tourism governance actors and institutions, and 3) Growing understanding of individual drivers of expectations and behaviours to enhance sustainable tourism in the Antarctic.

Two peer-reviewed journal articles have resulted from the short-term collaborations:

Cajiao, D., Benayas, J., Tejedó, P., & Leung, Y.-F. (2021). Adaptive management of sustainable tourism in Antarctica: A rhetoric or working progress? *Sustainability*, 13(14), Art. 7649. doi:10.3390/su13147649.

Tejedó, P., Benayas, J., Cajiao, D., Leung, Y.-F., De Filippo, D., & Liggett, D. (2022). What are the real environmental impacts of Antarctic tourism? Unveiling their importance through a comprehensive

meta-analysis. Journal of Environmental Management, 308, Art. 114634. doi: 1016/j.jenvman.2022.114634.

Several more manuscripts, including the one reporting the Antarctic tourism research agenda, are being prepared for submission.

## **VII. Budget Summary**

Submitted as a separate document.



## VIII. Appendices (including Photos and Links)

### A. Project team members



Dr. Yu-Fai Leung



Dr. Daniela Liggett



Dr. Chengzhao Wu



Dr. Daniela Cajiao



Dr. Javier Benayas



Dr. Pablo Tejado



Dr. Kees Bastmeijer



Dr. Karen Alexander



Dr. Hanne Nielsen



Dr. Gabriela Roldan



Dr. Gunther Reck

**B. AC21 Antarctic Tourism Research Project Webpage on Research Gate**  
[<https://www.researchgate.net/project/AC21-Antarctic-Tourism-Research-Project>]

The screenshot shows the ResearchGate project page for the AC21 Antarctic Tourism Research Project. The browser address bar displays the URL: <https://www.researchgate.net/project/AC21-Antarctic-Tourism-Research-Project>. The ResearchGate header includes a search bar and navigation links. The project details section shows the project name, collaborators (Yu-Fai Leung, Daniela Liggett, Javier Benayas), and a goal statement. On the right, statistics for updates, recommendations, followers, and reads are listed. Below the project details, there are tabs for 'Project log' and 'References (31)', with a 'Follow' button. The 'References' tab is active, showing a list of research papers referenced in the project, including 'What and who is an Antarctic ambassador?' and 'The evolution of polar tourism scholarship: research themes, networks and agendas'.

ResearchGate

Search for publications, researchers, or questions

Discover by subject area

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Log in

Project

AC21 Antarctic Tourism Research Project

Yu-Fai Leung · Daniela Liggett · Javier Benayas · [Show all 11 collaborators](#)

Goal: To establish a collaborative research network and engage other researchers in developing a research agenda for Antarctic tourism. This project is supported by the Special Project Fund of the Academic Consortium for the 21st Century (AC21)....

[Show details](#)

Updates [0 new](#) 1

Recommendations [0 new](#) 0

Followers [0 new](#) 15

Reads [0 new](#) 180

Project log

References (31)

[Follow](#)

Research referenced in this project

**What and who is an Antarctic ambassador?**

[Article](#) May 2020

Karen A Alexander · Daniela Liggett · Elizabeth Leane · [...] · Marcus Haward

[View](#) 13 Citations

**The evolution of polar tourism scholarship: research themes, networks and agendas**

[Article](#) Full-text available · Jan 2017 · Polar Geography

Emma J. Stewart · Daniela Liggett · Jackie Dawson

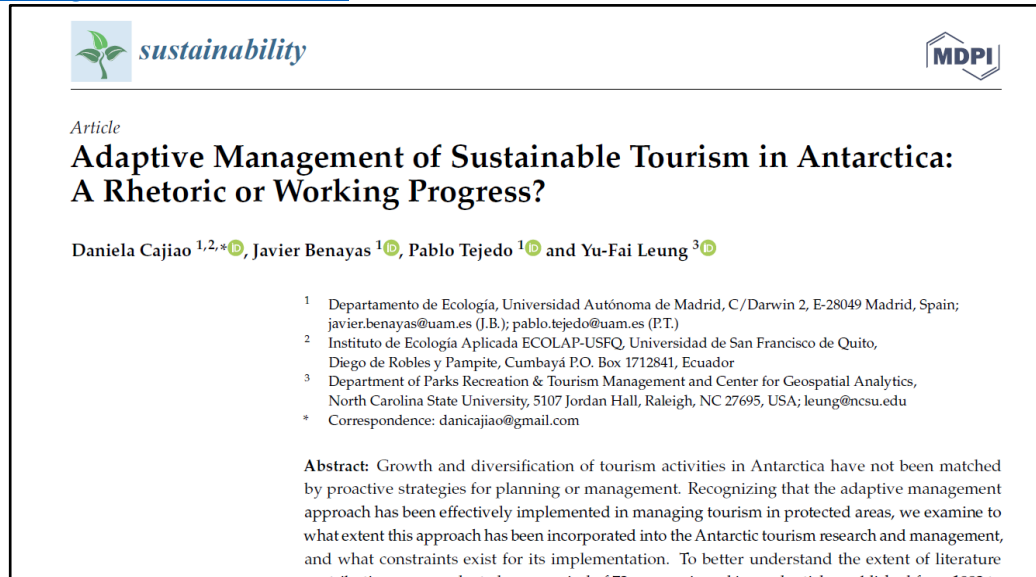
ES Spanish (Latin America)

Latin American

### C. Publication's screenshots

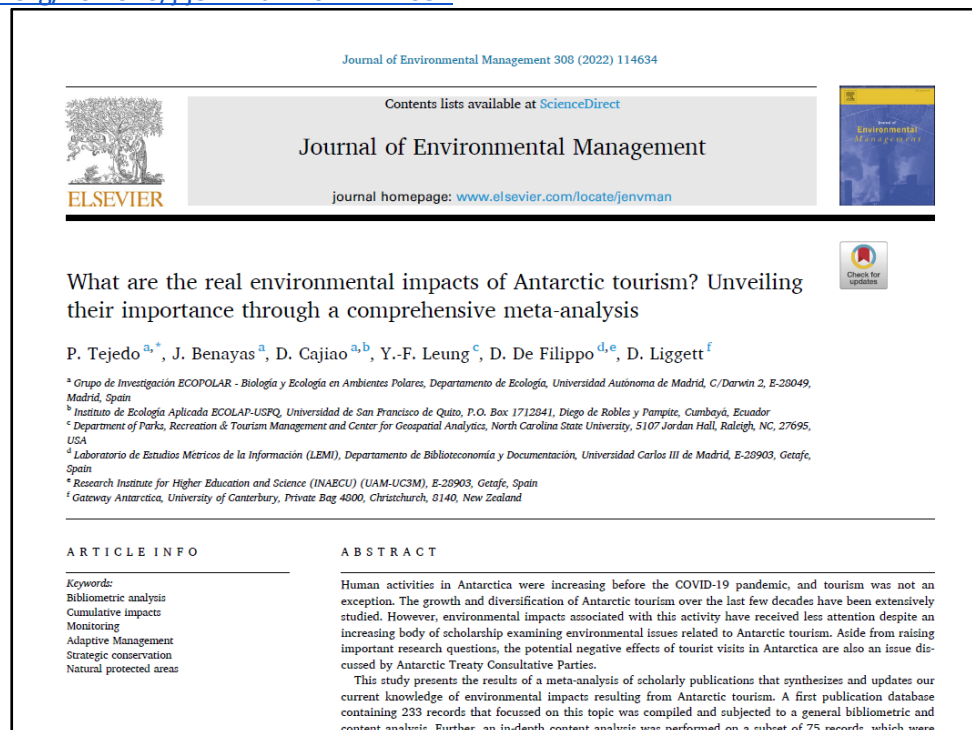
Cajiao, D., Benayas, J., Tejado, P., & Leung, Y.-F. (2021). Adaptive management of sustainable tourism in Antarctica: A rhetoric or working progress? *Sustainability*, 13(14), Art. 7649.

<https://doi.org/10.3390/su13147649>



Tejado, P., Benayas, J., Cajiao, D., Leung, Y.-F., De Filippo, D., & Liggett, D. (2022). What are the real environmental impacts of Antarctic tourism? Unveiling their importance through a comprehensive meta-analysis. *Journal of Environmental Management*, 308, Art. 114634.

<https://doi.org/10.1016/j.jenvman.2022.114634>



## D. Organized sessions and presentations at conferences

### 1. SCAR, SC-HASS Biennial Conference. Kobe, Japan, 18 November 2021. AC21 Project Panel Session.

#### Agenda



#### A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism (PANEL by the AC21 Project<sup>1</sup>)

18 November 2021

17:30-19:00 Kobe/Tokyo Time

03:30-05:00 Quito | 03:30-05:00 Raleigh (US-EST) | 9:30-11:00 Madrid/Amsterdam (CET) |  
16:30-18:00 Beijing | 19:30-21:00 Hobart (AET) | 21:30-23:00 Christchurch Time

#### SESSION AGENDA

Time Allotted	Agenda Item	Lead Presenter(s)
5 minutes	Welcome; introduction to session and the AC21 Project	Yu-Fai Leung
10 minutes	A research agenda for Antarctic tourism: Why? Why now?	Daniela Liggett, Kees Bastmeijer
15 minutes	Short-term collaboration highlights <ul style="list-style-type: none"> <li>a. Towards adaptive tourism management in Antarctica: Where are we now? (5 min.)</li> <li>b. Environmental impacts of tourism on Antarctica: The state of research (5 min.)</li> <li>c. Emerging tourism markets and the China example (5 min.)</li> </ul>	Daniela Cajiao Pablo Tejado Chengzhao Wu, Yu-Fai Leung
10 minutes	Vision for a collaborative future: SC-HASS Tourism Action Group proposal	Hanne Nielsen, Gabriela Roldan, Daniela Cajiao
5 minutes	Q&A's	Yu-Fai Leung (moderator)
10 minutes	Developing an Antarctic tourism research agenda: A two-step horizon scanning (HS) approach	Yu-Fai Leung
25 minutes	Community activity (structured group discussion)	Yu-Fai Leung and Daniela Cajiao (moderators)
10 minutes	General feedback	Yu-Fai Leung (moderator)

<sup>1</sup> The AC21 project team: **Dr. Yu-Fai Leung** (North Carolina State U., USA; project PI), **Dr. Daniela Liggett** (U. of Canterbury, New Zealand), and **Dr. Chengzhao Wu** (Tongji U., China). They are joined by eight other members: **Dr. Karen Alexander** (U. of Tasmania, Australia), **Dr. Kees Bastmeijer** (Tilburg U., the Netherlands), **Dr. Javier Benayas** (U. Autónoma de Madrid, Spain), **Ms. Daniela Cajiao** (U. Autónoma de Madrid, Spain), **Dr. Hanne Nielsen** (U. of Tasmania, Australia), **Dr. Gabriela Roldan** (U. of Canterbury, New Zealand), **Dr. Gunter Reck** (U. San Francisco de Quito, Ecuador), and **Dr. Pablo Tejado** (U. Autónoma de Madrid, Spain).



## ***Introduction to the SC-HASS Panel Session***



# **A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism: Introduction to the SC-HASS Panel Session**

**Yu-Fai Leung**

Professor and Director of Graduate Programs  
North Carolina State University, USA

18 November 2021

## ***Why do we need a research agenda for Antarctic tourism?***



*A Collaborative Approach to Developing a  
Research Agenda for Antarctic Tourism*

**SC-HASS Conference PANEL (18 Nov. 2021)**



# **Context setting: Why do we need a research agenda for Antarctic tourism?**

**Daniela Liggett and Kees Bastmeijer**

University of Canterbury (NZ) and Tilburg University (NL)

***Adaptive management of Sustainable Tourism in Antarctica.***



## Adaptive Management of Sustainable Tourism in Antarctica:

A RHETORIC OR WORKING PROGRESS?

Daniela Caijiao, Javier Benayas, Pablo Tejedo & Yu-Fai Leung

Kobe, November 18<sup>th</sup>, 2021

***Environmental impacts of Antarctic tourism***



## Environmental impacts of Antarctic tourism: The state of research

A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism  
18 November 2021





***Antarctic tourist visitation trends, emerging markets, and the China example***



**Chengzhao Wu<sup>1</sup> and Yu-Fai Leung<sup>2</sup>**

<sup>1</sup>Tongji University, China

<sup>2</sup> North Carolina State University, USA

18 November 2021



***SCAR Tourism Action Group (ANT-TAG)***



**Hanne Nielsen**

University of Tasmania  
(Australia)

**Daniela Cajiao**

Universidad Autónoma de  
Madrid (Spain),  
Universidad de San  
Francisco de Quito  
(Ecuador)

**Gabriela Roldán**

University of Canterbury  
(New Zealand)

**Yu-Fai Leung**

North Carolina State  
University  
(USA)

18 November 2021

***Developing an Antarctic tourism research agenda.***



AC 21 Project

## Developing an Antarctic tourism research agenda – *A two-stage horizon scanning (HS) approach*



**Project PI:** Yu-Fai Leung

**Project Co-Investigators:** Daniela Liggett, Chengzhao Wu

**Project Team:** Karen Alexander, Kees Bastmeijer, Javier Benayas, Daniela Cajiao, Hanne Nielsen, Gabriela Roldan, Gunter Reck, Pablo Tejado



2. SCAR Open Science Conference. August 2022. Organized session: The changing face of Antarctic Tourism.

*Adaptive Management of Sustainable Tourism in Antarctica. A rhetoric of working progress?*



**Adaptive Management of Sustainable Tourism in Antarctica:  
A rhetoric of working progress?**

Daniela Cajiao, Javier Benayas, Pablo Tejedo & Yu-Fai Leung

SCAR Open Science Conference  
August 9th, 2022

*The Antarctic Tourism “Anthropause”: What’s next?*



**The Antarctic Tourism “Anthropause”:  
What’s Next?**

Yu-Fai Leung<sup>1</sup>, Pablo Tejedo<sup>2</sup>, Daniela Cajiao<sup>1</sup>, Javier Benayas<sup>2</sup>

<sup>1</sup> North Carolina State University, USA

<sup>2</sup> Universidad Autónoma de Madrid, Spain

**NC STATE UNIVERSITY**

**UAM**  
Universidad Autónoma de Madrid

SCAR Open Science Conference -- 9 August 2022

SCAR

***Unveiling the real and potential environmental impacts of Antarctic tourism through a comprehensive meta-analysis of the published research***



# **Unveiling the real and potential environmental impacts of Antarctic tourism through a comprehensive meta-analysis of the published research**

10<sup>th</sup> SCAR Open Science Conference— 4 August 2022



**3. A collaborative approach to developing a research agenda for Antarctic tourism: A hybrid workshop. May 29th, 2022. Potsdam, Germany.**

**Agenda**



**Academic Consortium 21 (AC21) Project Meeting\***  
*A Collaborative Approach to Developing a Research Agenda for Antarctic Tourism*

**Sunday, 29 May 2022, 10:00-16:00 Central European Time**

**JOIN IN PERSON:** Raum 4-24a, Volmer, [Wissenschaftsetage](#), Am Kanal 47, 14467 Potsdam, Germany  
**JOIN ONLINE VIA ZOOM** -- <https://ncsu.zoom.us/j/96783559529>

**Meeting Co-hosts:**

Dr. Yu-Fai Leung (Project PI), North Carolina State University, U.S.A., [Leung@ncsu.edu](mailto:Leung@ncsu.edu)  
 Dr. Daniela Liggett (Project co-PI), University of Canterbury, New Zealand, [daniela.liggett@canterbury.ac.nz](mailto:daniela.liggett@canterbury.ac.nz)

**FINAL MEETING AGENDA**

Time	Agenda Item	Presenter(s)/ Moderator(s)
10:00-10:15	<b>A. Welcome, Introductions, AC21 Project Overview</b>	Daniela Liggett & Yu-Fai Leung
10:15-11:45	<b>B. Developing a Research Agenda for Antarctic Tourism</b> 1. <i>Research needs conceptual models from the <a href="#">AC21 core team</a></i> 2. <i>Community input: Highlights of Mural exercise; AC21 Horizon Scan 1st survey preliminary results</i> 3. <i>Next steps and final outputs</i> o Synthesis/prioritization of research needs o SCAR Open Science Conference o Project outputs and collaborative opportunities	Yu-Fai Leung, Pablo Tejedo & Daniela Cajiao  Daniela Cajiao & Yu-Fai Leung  Yu-Fai Leung, Daniela Liggett & Chengzhao Wu (moderators)
11:45-13:00	<b>C. Collaborative Fronts</b> 1. <i>Spanish and Dutch research proposals: Overview and collaborative opportunities</i> 2. <i>The SCAR Tourism Action Group (Ant-TAG): Overview and collaboration opportunities</i> 3. <i>Other collaborative fronts, including writing project updates</i>	Kees Bastmeijer, Javier Benayas & Machiel Lamers  Hanne Nielsen, Gabriela Roldan, Daniela Cajiao & Yu-Fai Leung  Yu-Fai Leung & Daniela Liggett (moderators)
13:00-14:30	<b>Lunch at a nearby restaurant (at your own cost)</b>	
14:30-15:50	<i>Walking Tour in Potsdam; Informal Networking</i>	Daniela Liggett leads
15:50-16:00	<i>Meeting Concludes</i>	Yu-Fai Leung & Daniela Liggett

\* Project Overview: <https://www.researchgate.net/project/AC21-Antarctic-Tourism-Research-Project>



**Potsdam Workshop photo**



**E. Team's Zoom meetings and initial conceptual outputs from the Horizon Scan exercise**



