Section A

Institution: University of St Andrews



Unit of Assessment: UoA31: Theology and Religious Studies

Title of case study: Recovering Peru's Religious and Cultural Heritage

Period when the underpinning research was undertaken: 2014 - 31 December 2020

Details of staff conducting the underpinning research from the submitting unit:

.g. job title):

Name(s):	Role(s) (e
Sabine Hyland	Professor

William P. Hyland Lecturer

Period(s) employed: 01 September 2012 – present

01 September 2013 - present

Period when the claimed impact occurred: 2015 - 31 December 2020

Is this case study continued from a case study submitted in 2014? No

Section B

1. Summary of the impact (indicative maximum 100 words)

The Andean religious and cultural heritage has been understudied and its importance has been unfairly downplayed. This is for two interrelated reasons: ethnic groups in Peru, such as the Chanka Indians, lack access to their own religious history; and Andean forms of communication, 'khipus', have been disparaged as not being 'true writing', while, their sacred nature has been overlooked. Prof. Sabine Hyland's research on the religious history of the Peruvian Chanka Indians, resulting in the first historical ethnography of them, (1) helped to recover and valorise Peru's religious and cultural heritage, and led to the establishment of the Chanka Museum in 2016, which is used by local Chanka people to learn about their history. Sabine and William Hyland's research on the Andean



system of writing with knotted cords, 'khipus' (which includes the first partial decipherment of a khipu text) has transformed how this Andean form of communication is understood. It was thought to have been merely a memory aide; by advancing decipherment, we showed that it was actually a complex writing system. Our research (2) has been incorporated into the Peruvian school curricula, reaching over 485,000 people (Peruvian students) to date, teaching children about their ancestors' intellectual achievements. Our research has also (3) demonstrated how khipus can continue to function as sacred texts in modern Andean villages, such as Collata. In Collata, a translated copy of our publication has been placed in their sacred archive. Additionally, our khipu discoveries have received international media coverage, and thereby (4) increased public understanding of Andean religious and cultural achievements worldwide. The story of our khipu decipherments has been carried by major news outlets, such as *The Times, The Daily Express, and All About History* magazine. Our research was featured in *Discover* Magazine (October 2017); in a cover article in *New Scientist* (September 2018); and in an interview for the BBC World Service show, Outlook. Prof. Sabine Hyland also appeared in two Discovery Channel documentaries to discuss our khipu decipherments.

2. Underpinning research (indicative maximum 500 words)

The religious and cultural achievements of the native peoples of the Andes have often been undervalued and denigrated. Our research addresses this issue by writing the first historical ethnography of the Chanka nation, revealing the impact of colonial Spanish priests and religion on their cultural institutions; and by making advances in deciphering the khipus, the knotted cord Andean system of communication, demonstrating that it was an actual writing system and not just a memory aide.

Prof. Hyland published the first history and ethnography of the Chanka Indian nation (**R1**) based on extensive archival and ethnographic research, revealing for the first time the complexities of Chanka culture, and the effects of colonial religious institutions on the people. The research revealed the rule of one Spanish priest whose legacy had repercussions on the Chankas' yearly festivals and their kinship structures into the 18th century and beyond (**R1**). In regard to the khipu writing system, Hyland's research has made, for the first time in 100 years, a series of five key advances in khipu decipherment and philology: it has deciphered the meaning of knot direction in khipus (**R2**); deciphered the significance of ply direction in khipus (**R2**); deciphered the two most common colour patterns in khipus (**R3**); discovered and partially deciphered the first phonetic Andean khipus ever known, demonstrating that the colourful cords represented syllables and could even tell a story (**R5**); and analysed the ways in which khipus are sacred texts and played an integral role in religious festivals (**R4**, **R5** and **R6**).

The appreciation of the Andean religious and cultural heritage has been hindered, in part, by a lack of research on regional groups, such as the Chanka of Andahuaylas, Peru, whose history – particularly their colonial religious history – has been entirely ignored. The Chanka have been stereotyped as brutal 'savages' and they have been described pejoratively as 'bellicose warriors' in Peruvian textbooks for schoolchildren. Respect for Peru's spiritual and cultural heritage has also been hindered by the lack of understanding of the nature of the Andean communication system of knotted cords known as 'khipus'. Most scholars have claimed that Andean khipus were not writing, but merely simple memory aides, implying a low level of intellectual achievement for native Peruvians. The khipus' sacred nature as religious texts in the remote Andean villages that retain them has also been overlooked. Our research has demonstrated previously unknown ways in which Spanish missionaries employed khipus to teach Christian catechisms and other religious texts (**R4, R5** and **R6**). The phonetic khipus that we have studied in the village of Collata are believed to express the sentiments of the local mountain deities. We are the first researchers to demonstrate how khipus are integrated as sacred texts in Andean life. Deciphering Andean khipus enriches our understanding of Andean religion and culture.

Our research **(R1-R6)** has contributed to the recovery of Peru's religious and cultural heritage in two ways: first, by uncovering the colonial religious history of the Chanka people, and second by advancing the decipherment of khipu writing, disproving the dominant view that they were merely memory aides, and demonstrating the role of modern khipus in Andean religious beliefs.

3. References to the research (indicative maximum of six references)

The research listed below was supported by peer-reviewed grants and published in peerreviewed and highly regarded academic journals and press. These publications are representative of a larger body of work by the research group of Sabine Hyland and William P. Hyland.

R1. Hyland, Sabine. 2016. *The Chankas and the Priest: A Tale of Murder and Exile in Highland Peru*. College Station: Pennsylvania State University Press. ISBN: <u>9780271071220</u>.

R2. Hyland, Sabine. 2014. "Ply, Markedness and Redundancy: New Evidence for How Andean Khipus Encoded Information". *American Anthropologist*. Vol. 116, no. 3, 643-648. DOI: <u>10.1111/aman.12120</u>.

R3. Hyland, Sabine. 2016. "How Khipus Indicated Labour Contributions in an Andean Village: An Explanation of Seriation, Colour Banding, and Ethnocategories", *Journal of Material Culture* 21(4), 490-509. DOI: <u>10.1177/1359183516662677</u>.

R4. Hyland, Sabine, 2020. "<u>Khipus en el Perú Colonial y Republicano</u>" ("Khipus in Colonial and Republican Peru"), In: *Khipus*, edited by Cecilia Pardo Grau and Gary Urton, Lima: Museo de Arte de Lima Press, pp. 165-171, <u>https://docplayer.es/198236586-Khipus-en-el-peru-colonial-y-republicano.html</u>.

R5. Hyland, Sabine. 2017. "Writing with Twisted Cords: The Inscriptive Capacity of Andean Khipu Texts", *Current Anthropology*, 58 (3). DOI: <u>10.1086/691682</u>.

R6. Hyland, Sabine. 2020. "Khipu Historiography", *L'Encyclopédie des historiographies. Sources et genres. Afriques, Amériques, Asies, Volume 1.* edited by P. Ragon, N. Kouamé, E. Meyer, A. Viguier. Paris: Inalco Press. pp. 964-972, <u>https://books.openedition.org/pressesinalco/26308</u>.

4. Details of the impact (indicative maximum 750 words).

Our research on the first historical ethnography of the Chanka nation and the khipus, the knotted cord Andean system of communication, has (1) helped to recover and valorise Peru's religious and cultural heritage; (2) led to our research being incorporated into the Peruvian educational curriculum; (3) demonstrated how khipus can continue to function as sacred texts in modern Andean villages, such as Collata; and (4) increased public understanding of Andean religious and cultural achievements worldwide.

1) Our research has helped to recover and valorise Peru's religious and cultural heritage.

Prof. Sabine Hyland's book on the Chanka nation **(R1)** has given Chanka Indians a better understanding of their religious and cultural heritage, a heritage which typically has been disparaged in Peruvian history textbooks. The Andahuaylas Minister of Culture and Commerce wrote: 'publication of "The Chankas and the Priest" represents a watershed moment for us in Andahuaylas [home of the Chanka nation]....For the first time we see our Chanka ancestors humanised; in their actions, we can see ourselves. No longer just "enemies of the Inka" or "bellicose warriors", Professor Hyland's research and publications have given us a fuller sense of who we are as a people, and the importance of valorizing, perserving and celebrating our cultural heritage' **(S1)**.

Our research on the Chanka Indian nation **(R1)** resulted in the establishment, in the city of Andahuaylas, Peru, in 2016, of the <u>Chanka Museum</u>. The museum features Chanka history displays based on our research where local people learn about their history and spiritual heritage **(S1)**. For bringing the voice of the ancient Chanka, their 'own' history, to their present-day ancestors, the Chankas have made Prof. Sabine Hyland 'an honorary Andahuaylina who contributes to the cultural, academic and economic life of this region in significant and long-lasting ways' **(S1)**.

2) Our research has led to changes in the Peruvian educational curriculum to improve religious and cultural awareness.

Our project's discoveries have been incorporated into Peruvian educational curriculums at the **2i**) national (the Peruvian Ministry of Education); **2ii**) regional (Cuzco regional government); and **2iii**) local (Collata village school) levels.

2i) After seeing the international media coverage on our khipu discoveries, the Peruvian Ministry of Education asked Prof. Hyland in 2017 to fact-check and provide photos for an online classroom lesson about our research which the Ministry subsequently prepared for schoolteachers khipus astonish the world' throughout Peru. Titled 'Our (http://www.perueduca.pe/ estudiantes/especial-del-mes/nuestros-quipus-siguen-asombrando-al-mundo), this lesson has been accessed by Peruvian school teachers 17,444 times to date, reaching over 485,000 people (Peruvian students) and thus approximately 20% of the total number of secondary school children in Peru (25 August 2020; the website maintains a counter that records only when teachers access the site). Teachers share comments on the site. Here are four indicative examples: 'How important this article about khipus [is]; as teachers we must know more about our ancestors so that we can teach the next generation about our history so that it is never forgotten' (28/03/18); 'Interesting lesson! What a marvellous legacy our ancestors have left to us... this is a very beautiful subject to discuss with our students' (27/03/18); 'We as teachers need to know more about this topic to teach our students and to call attention to the lives of our ancestors, so that when we make comparisons with other societies, we are not left behind' (18/01/19); 'A great contribution to discoveries about our ancestors, and a great legacy for future generations' (18/01/19) **(S2)**.

2ii) In 2015, the Cuzco Province's Ministry of Culture learned about Sabine Hyland's research from a National Geographic documentary about her work (Decoding the Incas) that aired in Peru in Spanish. They then asked Hyland to write an article about her khipu discoveries. The Cuzco

regional government (population 2,000,000 people) prepared and printed this publication at their expense about our khipu discoveries for all the provincial schools and libraries as a resource for teachers and students (15,000 copies). The Ministry of Culture in Cuzco wrote, '[your research] has greatly expanded our understanding of the value of the cultural heritage of the Andean people' (S3).

2iii) When community leaders in the Andean village of Collata saw Peruvian newspaper stories about our research on their khipus, they asked Professor Hyland for a copy of the Current Anthropology article **(R5)** which triggered the media interest. She provided the article, which they translated, and is now included in the curriculum of the local school. As a village leader wrote, *'We want our children to understand the value of their cultural heritage'* and therefore *'they need to know about your discoveries about our past'* **(S4)**.

3. Our research has demonstrated how khipus function as sacred texts in modern Andean villages, such as Collata.

The native leaders of the Andean village of Collata placed their translation of our article **(R5)** in their sacred archive. This archive consists of a wooden chest that also contains the khipus and colonial documents that serve as the basis of their religious and ceremonial life. The archive is hidden in an underground chamber of the church, indicating the sacred nature of these khipus **(S5)**. Village authorities now include a formal consultation of the article in the annual ceremony to install village officials responsible for local religious festivals. Villagers believe that the khipus express the concerns of the mountain deities; when the council of elders decided to show the khipus to us, the first outsiders ever to see them, the mountains signalled their approval by the fact that vicuñas (one of two wild South American camelids which live in the high alpine areas of the Andes) appeared in the surrounding peaks for the first time in decades. Our partial decipherment of the khipus is thought to please their ancestors and bring prosperity to the community **(R4, R5**, and **R6)**.

4) Our research has increased public understanding of Andean religious and cultural achievements worldwide.

Until Hyland's khipu research, it was thought that Andean Indians had not possessed writing; our research has demonstrated that khipus were a complex, often phonetic form of writing. When our article (R5) was published, the story was picked up by different news outlets, many of which requested interviews with Sabine Hyland for both print media and radio. Our discovery and partial decipherment of the first phonetic khipu ever found made international news, and was carried by over 11 major news outlets between 2017 and 2019, including The Times (circulation 437,352) and the Daily Express on 21 April 2017 (circulation 397,236) (S6); and a featured interview in All About History magazine, October 2019 (S7). The story was carried by media in the US, UK, France, Italy, China, Japan, Poland, and Peru; in a feature article in the Discover Magazine, October 2017 (circulation 582,276) (S8); in a cover article in New Scientist, September 2018 (circulation 124,623) (S9); and in an interview for the BBC World Service show, Outlook ('Deciphering the messages left by the Incas'), August 2018. Prof. Hyland also appeared in two Discovery Channel documentaries, Unearthed: Machu Picchu (aired July 2017), and Unearthed: Inca Cusco (aired October 2018), to discuss the research. In the first Unearthed documentary, Prof. Hyland analysed a khipu in Oxford's Pitt Rivers Museum and in the second she disseminated her research on Catholic missions in Peru. According to Altmetric, the Current Anthropology article (R5) had an attention score of 92% and was in the top 5% of all research outputs scored by Altmetric (S10).

5. Sources to corroborate the impact (indicative maximum of ten references)

S1. Letter from the Director of Culture and Commerce, Andahuaylas, Chanka Nation (2016).

S2. Peruvian Ministry of Education lesson plan, "Our Khipus Astonish the World" with 9 pages of comments by schoolteachers on teaching their students about our khipu discoveries.

S3. Letter from the Ministry of Culture, Cusco, Peru (2015).

S4. Letter from the indigenous authorities of San Juan de Collata, Peru (2015).

S5. Facebook message from the Secretary of the Association of Collatinos in Lima (12 June, 2017).

S6. *The Times* (Scotland) news article about our khipu discoveries, "Knotty Problem of Inca Writing Unpicked at Last", by Jeremy Watson, and the *Daily Express* news article about our khipu discoveries, "This may be key to secret Inca writing", by David Scott (21 April 2017) with circulation numbers.

S7. *All About History* magazine interview "Q&A with Professor Sabine Hyland: Investigating How the Incas Communicated Through Knotted Cords" by Jessica Leggett (October 2019).

S8. News story in popular science magazine, Discover Magazine, "Unravelling a Secret" by Bridget Alex (October 2017).

S9. *New Scientist Magazine*, "The Inca Code: We thought they left no writing. We were wrong" by Daniel Cossins (29 September, 2018) and circulation numbers.

S10. PDF of Altmetric analysis for the body of research (22 August 2019).