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3	ASSESSING THE EXPERIENCES OF YOUTH IN CLIMATE RESILIENCE IN
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9	Submitted in Partial Fulfillment of the Requirements for the Degree of Master of
10	Science in Biodiversity Conservation and Sustainable Development in the Caribbean
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50 <u>Abstract</u>

Young people have an increasingly strong social and environmental awareness and are key actors in climate action. The Caribbean, Trinidad and Tobago in particular, is extremely vulnerable to climate change and must learn to become resilient to impacts. Integrating young people is a guaranteed way to become more resilient. This study is the first of its kind in the Caribbean and will set a baseline for data on youth engagement. Focus groups and a series of questions were used to collect data from active young people (n=24) and found that motivations were grounded more in environmental passion and responsibility, with some influence from environmental media and education, as well as climate anxiety; activities noted fell within the category of dutiful dissent; a number of barriers were described which hamper youth involvement but which broadly fell within the categories of cultural, financial, age, gender, and other; and youth are mainly using education and awareness to indirectly contribute to climate resilience.

77 <u>Introduction</u>

In the last two decades, youth of all ages between 10 and 35 years of age have become enmeshed in environmental activism around the world, particularly climate action, driven by concern for their future under a warming climate. Eco-anxiety, the chronic fear of environmental doom, is on the rise in young people. Of 10,000 participants in a survey on eco-anxiety, two-thirds reported feeling sad, afraid, or anxious [1], while 56% reported feeling that humanity is doomed. The youth climate movement is mainly underscored by urgency and the need for survival, alongside feeling responsibility to maintain a clean environment.

Youth aged between 15 and 24 make up 16% of the global population, or 1 in 6 people, and the number is projected to rise by 7% from the current 1.2 billion to 1.3 billion by 2030 [2]. The increasing social and environmental conscientousness of this demographic sets them apart from older generations. They are key actors in climate action, working towards endgoals like conserving nature, supporting renewable energy, raising awareness, promoting sustainable lifestyles, running educational programmes, and implementing or supporting adaptation and mitigation projects, displaying a keen enthusiasm and resilience throughout. T&T activist Sean McCoon, at the Stockholm+50 Youth National Forum in April 2022 [3], was quoted as saying, "Our actions are what inspire the next generation. In my experience as an environmental activist, you'll find that it is the younger ones who are interested in doing."

Figureheads such as Greta Thunberg, Archana Soreng, and Vanessa Nakate exemplify a unified and dedicated mission to combat climate change, representing a tiny fraction of youth climate activists. Climate advocacy invites actions of all kinds, ranging from establishing networks, leveraging social media for education and visibility, building capacity through workshops or educational materials, and engaging in policy by both campaigning or directly

contributing [4]. The climate space is multidisciplinary and there are many avenues. For example, interactions and engagement with the United Nations by attending public events, membership in the major groups, or being consulted as a stakeholder are some examples of climate advocacy at the global multilateral level [5]. Youth are also making a presence at varying climate conference, most notably the United Nations Framework Convention on Climate Change Conference of Parties (COP) which is becoming very heavily subscribed. COP26 was attended by hundreds of youth and was accompanied by a massive street protest, the pre-conference Conference of Youth, and the Youth4Climate Pre-COP event in Milan, Italy. At the UN level, there is also Jayathma Wickramanayake who is the Secretary-General's Envoy on Youth, and the Secretary-General's Youth Advisory Group of nine accomplished activists, among many other initiatives.

Trinidad and Tobago (T&T) has a vibrant civil society environment, with over 100 registered civil society organisations (CSOs) dealing with environmental protection [6] working largely in biodiversity conservation, environmental education, climate change, disaster risk reduction, waste management, and sustainable agriculture, effecting meaningful change on the ground and addressing priority needs. In terms of youth involvement, there are very few youth-focused CSOs (notable examples include the UWI Biological Society, the Caribbean Youth Environment Network T&T chapter, the T&T Youth Advocacy Network, and lamovement). Despite this, there have been a number of events and initiatives designed and populated by youth. In November 2015, lamovement hosted a climate march to show national support for adopting the Paris Agreement of COP21 [7], accompanied by an "Eco-Village" where attendees could visit booths and meet environmentally conscious organisations. In 2019, agitated students carried out a climate strike in opposition to government inaction [8]. The T&T chapter of the Caribbean Youth Environment Network successfully implemented a project called Learn and Flow, aimed at increasing awareness of water resource issues in selected watersheds around Trinidad [9]. T&T activism tends to be artistic in general, specifically making use of spoken word [10]. A prime example is the New

Fire Festival that was held annually between 2016 and 2019 [11], with an ongoing hiatus due to the COVID-19 pandemic. It is a social entrepreneurship initiative using an eco-music and arts festival format, placing sustainability and community as its guiding focus.

In the Caribbean, climate advocacy becomes an issue of survival. The Caribbean, being largely made up of Small Island Developing States, is extremely susceptible to the changing climate, due to their small size, limited resource base, growing populations, relative isolation, high concentration of settlements and infrastructure along low-lying coastal strips, and a population dependence on agricultural activities [12, 13]. The 1.5 To Stay Alive campaign, launched ahead of COP21, was a desperate plea to UN member states to adhere to future warming of no more than 1.5C above the pre-industrial baseline [14] to minimise harmful positive feedback loops in the climate. As a result of this campaign, a maximum cap of warming was formalised as 1.5 degrees Celsius instead of the proposed 2. In preparation for the COP26 in 2021, the campaign was transmuted by CYEN in partnership with the United Nations International Children's Emergency Fund into Stay Alive and Thrive, expressing a vision for the Caribbean to be resilient in the face of disaster [15].

Climate resilience is now an endgoal of advocacy, alongside adaptation and mitigation. It occupies a unique niche in which the aim is not simply to reverse the effects of climate change or learn to live with it, but to actively thrive in an environment which may soon become unlivable. Climate resilience is defined as "the ability to anticipate, absorb, accommodate, or recover from climate change in a timely and efficient manner" [16], a suitable vision for the Caribbean when warming currently sits at 1.2C. Resilience is often seen as the other end of a spectrum, of which vulnerability is the reverse, though where the application of the vulnerability theory focuses on increasing adaptability, resilience in a practical sense will focus on ensuring the sustainability of natural resources and human communities [17]. The Caribbean, specifically T&T, must learn to become resilient to climate

impacts, and this can be reliably accomplished by taking stock of climate-conscious active young people and integrating them into the wider scope of action.

This paper examines the experiences of youth in the climate advocacy sector in T&T and makes the argument that youth are fundamental to climate resilience and should be explicitly considered as actors and stakeholders.

Research question: What are the experiences of youth (ages 18 to 35) in the climate advocacy sector in T&T, and how do young people in T&T contribute to climate resilience?

Hypothesis: Young people in T&T are key assets in moving towards climate resilience.

Youth is defined here as 10 to 35 years of age [18] consistent with the National Youth Policy (2020-2025) which provides a demographic profile of youth and attempts a census of the main activities in which they are engaged. It is estimated that there are approximately 436,000 young people (40% of the national population of Trinidad and Tobago). For the purposes of this study, only youth 18 years and older were considered, to eliminate ethical concerns of interviewing minors. To further narrow down the target population, only youths who are "active" were selected. For the purposes of this study, "active" was taken to mean those who are actively working in climate activism (within civil society as employee or voluntary position, or as an individual) or employed in any private or public organisation with a focus on climate work.

<u>Method</u>

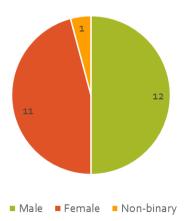
A qualitative approach was deemed necessary to answer the research topic. The research topic is previously unexplored in Trinidad and Tobago and the Caribbean, so hard data is largely nonexistent unless extrapolated from studies done elsewhere.

The main data collection tool was an online focus group. A call for focus group applicants was made and a Google sign-up form was disseminated. Six focus groups were run in February-March 2022, consisting of 3-5 participants each, using the online video conferencing platform Zoom so that participants were not placed at risk of contracting COVID-19 in an in-person meeting. A series of premade questions were used to guide the discussion (see Appendix), and the primary investigator made notes of the discussion, including useful quotes.

The notes from the discussions were typed into a spreadsheet. Poignant quotes were included. The data was then run through a manual content analysis, looking for broad themes and notable points.

Results and discussion

Gender of participants



205

Figure 1: Genders of participants

Education 15 Number of participants 10 5 Form 6 Bsc. Msc. Other Level

Education

Figure 2: Educational levels of participants

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Age 9 8 8 Number of participants 6 6 4 1 0 18-21 26-30 31-35 Age group Age

210 211

Figure 3: Ages of participants

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Participants were roughly gender-balanced (Figure 1), so a gender bias in results is unlikely. Of the 24 participants, the vast majority (21) had completed or were currently enrolled in a tertiary education programme (Figure 2). Three participants were Form 6 students who were members of their school environmental club. There was one outlier who completed secondary school and began a bachelor's degree in communications but dropped out without finishing. The high proportion of tertiary-educated participants likely had an effect on responses, in that they were more aware of climate impacts and were able to link it to science, and in terms of the activities they chose to do to tackle climate change. Similarly, there were 18 people spread between the three older age cohorts (Figure 3), at a time in their lives when they would be conceivably out of tertiary education and embarking on lifelong careers, so participants would be much more direct and self-assured in their chosen activities.

All participants were able to describe an understanding of resilience, either in the relevant terms of a natural disaster or in a general sense. In their descriptions, some were able to touch on concepts within resilience, such as how resilience is an ideal- it can only be striven towards but never fully achieved, while others talked about resilience as being a societal and economic capacity. When asked to describe Trinidad and Tobago as climate resilient, the majority of participants presented a nuanced view, hesitating to say "yes" or "no" but explaining in great detail. The general view was that Trinidad and Tobago has several projects and policies to improve climate resilience but they remain impeded by lack of political will and public support. There is also minimal disaster preparedness. Only two participants gave a concrete "no". When asked to describe how their work played into climate resilience, there was often hesitation as participants did not pursue the work towards a goal of resilience, rather to simply make changes where they could in the interest of environmental conservation and sustainable development. Twelve participants linked their work to the goal of educating the public and their peers, understanding that awareness is a first step, or as one participant said, "Awareness leads to rethinking. The more the public is aware, the better they can be prepared and hold the government accountable." This seems to be the main way that youth are contributing to climate resilience.

Motivation fit into the following six broad themes:

- Always been interested in environmental issues
- Exposure and influence of education/media
 - Climate anxiety, needs to do something to change the course of history
- Trying to soften the effects of the future or influence adaptation efforts ("collective
 responsibility")
 - Environmental stewardship- inherited the earth and aren't taking care of it ("leave the world as you found it or better")
 - Caring about current and future generations, want to leave behind a livable world

There is a strong theme of responsibility and caring about environmental issues. Passion for the environment is a driver of action [19]. Interestingly, none of the participants were motivated to act because they had been personally affected by climate change. Most had been affected in some way, like one participant who lived in Greenvale, Trinidad at the time of the 2018 flood and suffered heavy material losses. It reinforced pre-existing ambition but it did not inform their actions. They were able to connect impacts experienced with science about climate change. This implies an awareness of climate science and the urgency needed. One could also infer a sense of altruism, of wanting to act for the sake of other people. There was a sense of disillusionment in a few participants who felt as though they were paying for the actions of other people, summarised in the following quotes: "If no one else cares, then I have to care" (speaking to the feeling of responsibility" and "It feels like running a marathon I wasn't prepared for" (indicating the mental and emotional toll of taking on that responsibility to ensure what they believe is a brighter, more sustainable future).

A few people directly cited exposure to environmental media, like the animated show

Captain Planet, and others said they had a primary/secondary school curriculum inclusive of
environmental studies. Environmental education at a young age, particularly up to eight
years old, can have a lifelong impact on literacy, environmental concerns, and participation

in pro-environment behaviours [20]. One participant said she only became interested in the environment because of a biology course she took for her bachelor's degree. In terms of school exposure, formal education has been observed to provide a strong multiplier effect on a person's initial pro-environmental feelings [21, 22] and despite no significant correlation existing between knowledge and activism on climate change, correlation can be made between knowledge and attitudes and between attitudes and activism [5].

Three participants admitted feeling a sense of climate anxiety, which is now becoming recognised as a mental health phenomenon explicitly related to climate change and feeling a sense of doom about the future. Children and young people are beginning to report higher rates of concern and anxiety about climate change and the future of the planet [5] especially those living in SIDS [23], as is dissatisfaction with government responses which can exacerbate negative feelings and impact daily functioning [1]. This is not a condemnation upon those suffering with climate anxiety as it can actually be the source of action. Fear motivates action by raising awareness of the threat of climate catastrophe [24]. The "paralyzing potential of fear" is mediated by hope: hope propels action while collective action generates hope and manages fear. However, this is a generalisation; Global South youth representatives in the same study did not only feel fear, but anger as a driving emotion; hope and anger combine to manage acute fear. Hope lies in collective action but also in the "angry ascription of responsibility to the Global North".

- There were a wide range of jobs and activities recorded. The various activities are listed below as profiles:
 - Job working in Ministry of Youth Development and National Service
 - Students in their secondary school environmental club
- Sustainability coordinator for T&T Red Cross
 - Working in Antigua and Barbuda Department of Environment

- Founder and director of an environmental consultancy
- 301 EMA GIS analyst
- Managing two local NGOs and lobbying Tobago House of Assembly
- Children's book author and volunteer for over 10 years
- Members of Sustainable Ocean Alliance (Caribbean) and tertiary students in
 environmental programmes
 - World Bank energy consultant and runs a social media educational account
 - Energy expert and podcast host on climate change in Caribbean
- 308 Climate journalist

- Renewable energy master's student
- Various other unpaid work like a voluntary analysis of T&T Nationally Determined
 Contribution, offering time to the T&T Red Cross and Habitat for Humanity, CYEN-TT
 members

Activities were analysed in light of the topology presented by O'Brien, Selboe, and Hayward [25], in which the authors discussed youth climate activism in terms of dissent, as not all forms of activism are the same, ranging from symbolic acts to political mobilisation. They identified three categories, those being dutiful, disruptive, and dangerous. Dutiful dissent is expressed through joining or lending support to activities that endorse existing and emerging institutions and social norms to express resistance to dominant practices. Disruptive dissent seeks to modify or change existing political and economic structures, which include norms, rules, regulations, and institutions. Dangerous dissent defies business as usual by initiating, developing, and actualizing alternatives that inspire and sustain long-term transformations. It is called "dangerous" because it actively subverts the status quo and generates new systems. All of the activities noted in this research fell under "dutiful", despite the expectation that some examples of "disruptive" might crop up. For example, hosting a podcast on climate change in the Caribbean, running a social media account to disseminate information,

lobbying a government body, and publishing cutting-edge climate journalism are all proactive, but in no way disruptive or dangerous (in the sense described above). Dutiful actions reflect a sense of responsibility for others but does not challenge structural issues and power imbalances. However, dutiful dissent should not be mistaken for pandering to the status quo; rather, it shows that activists in this category are committed to change and appreciate the significance of "exploiting windows of opportunity within current structures and systems" [25], and it plays a constructive role in keeping conversations about climate change at the forefront and ensuring that responses are prioritised and enacted through policies and practices. In fact, the environmental movement in the United States between 1970 and 2000 falls within this category (known in this context as "reformist environmentalism"), and it paved the way for the "Big Ten" organisations such as the Wilderness Society, Friends of the Earth, the Sierra Club, and the National Wildlife Federation to set up offices in Washington D.C. and join the lobbying establishment [26].

Participants were asked to describe any barriers to involvement they may have noticed or experienced, and responses fell within cultural, financial, age, gender, and other, summarised in Table 1. Responses within each category have been ranked from most common to least common, in the order of top to bottom. It should be noted that these are subjective responses and not all of the barriers can be addressed with the available literature. The points that are discussed subsequently have been underlined in the table.

Table 1: Barriers to Youth Engagement in Trinidad and Tobago

Cultural	Financial	Age	Gender	Other
Environment is	Funding is	Older people	Women are	Strong laws but
not considered	limited	are not willing to	treated more	slow
to be important		change their	disparagingly	bureaucracy

		ways or listen to		and failure to
		young people.		enforce existing
		There is an age		laws and
		ranking for how		policies
		important one's		
		opinion is		
Population	Jobs in the	When included,	Male	Barrier of entry
doesn't know	climate space	the action tends	perspectives	to set up NGOs
about climate	are limited,	to be tokenistic	are dominant	
impacts,	barrier to entry-		and valued	
understand the	level,		higher	
science, or	compacency in			
care. Low	employees in			
scientific literacy	existing jobs,			
and resistance	high competition			
to learning	among			
	university			
	<u>graduates</u>			
Lackadaisical	Private sector is	Young people	Women are	Using
attitude	not open to	don't have the	suspected to	environmental
	finding projects	power and	make up the	projects as a
		influence they	majority of	farce to look
		need. Display	environmental	good to the
		more interest in	volunteers in	public/investors
		climate change	T&T but many	
		but tend to be	CSOs are male-	

		dismissed due	led or have a	
		to age	male figurehead	
			and their	
			opinions are	
			treated as more	
			valuable	
Assuming	T&T Green	Quote: "A young	"Women want to	Collaborations
climate change	Fund is difficult	person walking	step forward	between private
and resilience	to access for	into room to	and become	sector and civil
are the	projects	speak about	part of effort but	society-
responsibility of		critical issues	because of	"transition
the government		will receive	cultural and	needs to be a
		standoffish and	gender culture,	partnership".
		skeptical	women are	Fossil fuel
		response but	much less	energy
		they warm up	confident and	producers in TT
		eventually.	assertive"	are resistant to
		'What he know		change while
		about dem		CSOs refuse to
		kinda ting', 'he's		collaborate
		a lil young boy'.		
		There is		
		emphasis		
		placed on the		
		age of		
		messenger"		

T&T culture	Quote: "There is		Lack of
does not treat	a financial		transparency-
young people	divide of have		about climate
with respect so	and have-nots.		policies that are
it is harder to	Steps are being		happening and
enact change	taken to remove		about gaps
	barriers but a		
	long way off"		
Climate change			Data gaps and
is not an			inefficient data
attractive topic			sharing systems
so it is not			
widely			
appealing			

<u>Cultur</u>al

Caribbean culture, according to Hollis [27], can be distilled into three ideal types: a culture of non-participation, caused by a reluctance to embrace the turbulent past and which limits depth of vision for the future; a culture of non-maintenance linked to relaxed attitudes towards present and future; and that the present is "locked" into an "ephemeral state-of-being", characterised by fluidity in large portions of the population "constituted by a struggle with the past and an unclear vision of the future" [27]. Hollis describes these as determinants of social resilience in disaster risk management, but they can be extrapolated to understand the lax view of the environment expressed in Table 1. This is further supported by Persadie and Ramlogan [28], who note that developing countries, typically in the Global South, are not usually in a position to give priority to environmental management because they have not achieved certain development objectives and cannot afford to divert financial resources for

"lower priority" issues. With particular emphasis on this point, two participants described how their environmental passions were criticised by family and peers; one participant was told growing up that "the work you do will not matter", while another was criticized for choosing an environmental degree since it does not pay well and is for people who are "not smart".

The Environmental Management Authority conducted a national environmental awareness survey in 2020 [29] and found that three key demographics, household, schools (forms 3-6), and industry all scored 56%, 51%, and 63% in terms of literacy, but found a "broken linkage" from attitude to behaviour. This was theorised to be because of historical and cultural behaviours and norms around interaction with the environment and a lack of support infrastructure and programmes for pro-environment practices.

Financial

Small states are especially prone to brain drain, occurring at a rate five times that of all developing countries, twelve times that of high-income countries, and eight times the world average [30]. T&T has been dealing with brain drain which is compounded by a national economy that has been contracting for years and thus is unable to absorb the graduates exiting the numerous secondary and tertiary education institutions, according to former Minister of Energy and Energy Affairs, Kevin Ramnarine [31]. T&T has an On-the-Job Training programme and its National Youth Policy for 2020-2025 [18] has identified priority areas to engage youth in short-term employment programmes and to optimise employment opportunities in emerging green and blue economies, but this appears to be inadequate. This is corroborated by two participants who found it necessary to migrate in order to find jobs in the environmental sphere, one who is working for the Antigua and Barbuda Department of Environment and another who found employment as an energy consultant in Guyana. One other participant migrated to St. Lucia also attempting to find gainful employment, but she abandoned her original career dream of being a veterinarian or biologist in favour of starting an accounting firm since green jobs are limited.

Age

The Caribbean is home to two contrasting perspectives regarding youth. Firstly, the "asset-based discourse" which takes a rights-based standpoint and "speaks to the recognition of young people as key agents for social change, economic growth and technological innovation" [32]. The asset-based discourse is the guiding philosophy of the majority of United Nations resolutions and publications relating to youth development, as well as global/regional youth-centred bodies like the Commonwealth Youth Programme,

Commonwealth Youth Climate Change Network, and Caribbean Regional Youth Council.

Conversely, the "deficit discourse" has been prevalent in the Caribbean for decades and can be traced back to the post-Emancipation period [32]. The deficit discourse posits youth as problems to be addressed, social deviants, broken or at risk of being broken. It is still prevalent in the relations between older and younger generations, evidenced by the examples given in Table 1. However, this seems to be a pliable barrier; as the excerpted quote in the table states, youth receive "standoffish" reception but the older generations "warm up eventually". Despite this, another participant expressed frustration, saying, "I can suggest a solution but I'm not in a position to influence" because her age is disregarded.

Limitations of study

This study would have benefited from the use of a written survey, either independently or alongside the focus groups. Use of closed-ended questions would have provided quantifiable data points, like those in a Knowledge, Attitude, and Practice survey format. The data was inherently biased as there were not as many people signing up to participate as was anticipated, so most of the participants were directly approached and beseeched to participate. These participants were either existing colleagues or were tracked down through networks. As such, the data was not truly random.

Management implications

The lack of funding was censured in the focus groups. It would be simplistic to suggest to provide more money, but this would be troublesome in a contracting economy that is influencing brain drain of passionate and educated young people. Where possible, funding should be provided for the facilitation of education and capacity building and to access resources to carry out resilience activities. The National Youth Policy states that one of its priorities is to "to optimise employment opportunities in emerging green and blue economies" [18]. If this goal is critically revisited for T&T, it would theoretically solve many problems at once: it would provide meaningful employment in the environmental sector and minimise youth brain drain, increase country resilience, improve sustainability (ILO 2019), and it could usher in economic upturn. A mentorship programme for young people who wish to advance in existing green jobs, as suggested by some participants, would facilitate the transfer of skills and experience to the incoming workforce. The Stockholm+50 Youth National Forum, hosted by the United Nations Development Programme in April 2022, concluded that there is a need for enhanced environment and climate education and awareness, support to youth green projects and innovations, and partnerships [34].

436 Conclusion

Youth have boisterously made their presence known in countries around the world and it is no different in T&T. This study is the first of its kind in T&T and in the wider Caribbean and may provide a baseline for structured youth engagement as it provides a qualitative view into the conditions experienced by active youth on the ground. Youth have long been acknowledged as changemakers and stakeholders, and having the scientific backing will ease any transitions into including youth on community and policy scales. In short, youth are highly motivated in climate action because of a deep passion for environmental protection and wanting to maintain a livable future for next generations. Motivations are influenced by exposure to environmental media and education, and spurred by climate anxiety. Several

activities were noted in how the participants interfaced with climate action. Upon further investigation, all were aligned to the category of "dutiful dissent" which indicates a commitment to climate action and simply that participants chose to exploit pre-existing windows of opportunity rather than forge new pathways. A number of barriers to engagement were collected, which fell into the categories of cultural, financial, gender, age, and other. As for how youth are contributing to climate resilience, education and awareness is the tool of choice, laying groundwork for the public to be more resilient and equipping them with the knowledge to demand stronger policies. Research of any kind involving environmental attitudes and behaviours is sparse in the Caribbean despite its importance in the coming years. Any research into tangential fields such as educational exposure, individual behaviours, youth as a demographic (and not just the "activists"), perception of the environment by the general public, and even the input of LGBTQ+ members all have serious potential in climate resilience. Rather than keeping research broad, as demonstrated in this study, it is recommended to pick a niche topic.

474	<u>Acknowledgements</u>
475	My project would not be where it is without the input of many people.
476	
477	Thank you to my current and former supervisors, Dr. Trina Halfhide and Professor John
478	Agard (respectively), for keeping my ideas grounded with their years of professional
479	experience.
480	
481	Thank you to CCRIF-SPC for providing the funding that kept me in the programme.
482	
483	Thank you to the 24 participants who gave generously of their time and experiences, and
484	formed the basis of my research.
485	
486	Thank you to the coordinators of the MSc. BCSDC for smoothly running a programme where
487	I got to expand my mental horizons and learn more about the world I want to protect.
488	
489	Thank you to my dear fiancé and friends and family who supported me and kept me going.
490	
491	Thank you to the multitudes of youth activists, online and offline, with whom I have
492	collaborated and taught me what I know about activism and advocacy. You are all the
493	reason why I chose to study this topic. Special mention to the members of UNEP MGCY, the
494	Stockholm+50 Youth Task Force, and the IUCN Youth Speak Representatives.
495	
496	This was ultimately a collaborative effort and there is a piece of everyone in it.
497	
498	I couldn't have done this without any of you.
499	
500	

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