Cyber Security Project

Name:

Course Title:

Institution:

7th May 2021

**Cyber Security Project**

**Self-Reflection on past achievements**

Born a passionate problem solver and an appreciator of private space, I am on a trajectory towards solving the perennial problem of data privacy and data protection. It emerges as a sensitive cybersecurity issue in the contemporary world. My early life in New York, which is the most populated city in the U.S., ostensibly fueled within me a more profound yearning for privacy space, and this notion accounts for my unmoved passion for subduing data privacy and data protection crises facing the current generation. As a young lad, I grew up witnessing the gross suffering of the New York City residents as most were victims of cybercrimes that were mainly caused by poor privacy and data protection approaches.

I graduated with a 79.5 mean mark in my K 12 course, and the results helped me secure a place at the Jericho Senior High School. Later, I joined my current University. Upon entering the institution, I enrolled with the 'current technology affairs' club, where I served as a secretary in my second year of study and later as the chairperson. During my tenure as the club's chairperson, seventeen projects related to current technological affairs were proposed and articulated. Among these seventeen projects, ten were related to reducing cyber-related crimes through data protection. One of these projects, titled 'Data privacy and Data protection Incoordination,' earned the innovative University award of the year 2016. It postulated an existing gap of coordination between Data Privacy and Data Protection. This conclusion opened enlightened both the learners and the teachers on the relevance of Data privacy and Data protection in curbing cyber-attacks.

Besides, I earned the University's honors award of 'the innovator of the year 2017' after a successful project aimed at developing simple encryptions and Firewall applications to be used by the institution's data teams to secure the institution's data sets. Moreover, the success of developing these armature encryptions and Firewall applications awaken my consciousness of the potential that I held in solving the contemporary cyber crimes emanating from unsecured data. This notion incited early motivation for research to establish the loopholes that the current data privacy and data protection strategies have concerning the escalating cybercrimes in the contemporary technological society.

**Personal SWOT Analysis on my Current Experience**

In my current professional position and my pursuance for a Doctorate, various engagements have awakened my consciousness regarding my Strengths, Weaknesses, Opportunities, and Threats that define my professional wholeness.

*Strengths:*

I am a passionate problem solver. Since my early education life, I have developed an intrinsic urge to create solutions to humankind's problems in society. I find pleasure in sourcing for the root cause of humanity's challenges and creating palatable responses that could reverse these challenges. My Curriculum Vitae (CV) reflects my unmoved passion for creating a sustainable solution to the cyber techniques that limit the relevance of technology to contemporary society. In my CV, I take pride in piloting seven projects to respond to the theory of cyber-attacks that grace the current generation.

Moreover, I am a team player and a deep believer in coordination. My current position as a student exposes me joined projects and peer discussions through which we exchange ideas and intuitions developed in learning. Besides, my CV testifies various bound tasks such as the 'Data privacy and Data protection Incoordination' that was honored as the best project of the school 2004. I have bold regard towards joint efforts and relentless dedication to group work irrespective of my position in the group.

Also, I am a critical thinker and a thorough decision-maker. I have encountered situations that necessitate essential thinking and conscious decision-making in my past and current experiences. I own two projects in which I deployed my necessary thinking abilities to develop encryptions and Firewall applications for usage in my former high school database. Besides, through my critical thinking, I can notice that there various loopholes in Data privacy and data protection practices that promote the theory of cyber-attacks in contemporary society. I am a good chess player too. Besides broadening my critical thinking, it confirms my psychometric margins as a developing scholar.

***Weakness:***

However limited, my over-reliance on past technologies as the drawing board for future innovations limits my innovation potency. For instance, the encryptions and Firewall projects reflected in my CV are improvements of past creations. Whereas I take pride in developing these outstanding projects, I am conscious of their influence in limiting my creativity and innovation.

***Opportunities:***

My current position as a student exposes me to an opportunity of solving the overall concept of cyber-attacks owing to ill-executed Data privacy and data protection practices. The cybersecurity theory of cyber-attacks points out that most cyber-crimes are perpetrated because of underdeveloped technologies in upholding Data privacy and data protection. This scenario presents me with an opportunity to find solutions to the limitations of data privacy and data protection practices, which ostensibly result in rampant cyber-attacks in contemporary society.

***Threat:***

In my trajectory to developing my professional objective of solving the cybersecurity issue, I am aware of the threat of lack of literature provision in the field. Though various authors have explored cybersecurity, little has been done concerning the remedies towards the Data privacy and Data protection ill-technologies that expose the current generation to rampant cyber insecurity. Lack of exploration on the subject is a threat to this development. It intends to consult the perception of the existing literature.

**Future Personal Development Plan**

My trajectory towards the final project will assume several steps:

Step 1 will involve confirming that deficiencies in Data privacy and data protection practices are causatives of the prevalent issue of cyber insecurity. This stage will be articulated by examining the current technologies used to protect data compared to hackers' adopted technologies. This stage will be covered within two weeks. Relevant scholarly resources such as books and articles will be critically scrutinized to establish the potential causatives of technological deficiencies in Data privacy and Data protection parameters.

Step 2 entails researching the specific technological deficiencies existing in the platforms developed to protect data. This stage will inspect the year of establishment for the versions of the technology, the market prevalence of the technologies, and their reliability in protecting user's data. This stage shall be covered in a week, within which extensive study on past similar projects touching on technological deficiencies in data privacy and data protection will be done.

Step 3 will include finding solutions to the technical deficiencies identified above. This task will also be articulated through consulting the existing literature and professional advice. However, in the event of insufficient literature provision, relevant recommendations shall be made based on my personal, professional experience in the field. This section of the project shall be covered within two weeks.

Step 4 will entail testing the suitability of the above-proposed recommendations in ensuring data privacy and protection are articulated. The new technological advancements will be tested by observing their performance when deployed against the 'hackers' technology. Various versions of technologies that hackers deploy shall be tried against the improved data protection technologies. These versions of 'hackers' technologies shall be sourced from the existing literature. This stage is scheduled for three weeks.

Step 5 will involve incorporating the new, improved data privacy and data protection technologies with the current technology. This stage is scheduled for two weeks. The approved technological advancements will be configured to match the current user technologies used in contemporary society to uphold data privacy and data protection. The configuration pedagogy that will be deployed in this section shall be sourced from the literature and innovative classwork.

**Research Log**

**Research Topic: Data privacy and Data Protection Deficiencies as Causatives of Cyber Security**

**Students name:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Research activity | Sources | Author | Notes |
| 1st June 2021- 8th June 2021 | Confirming deficiencies in data privacy and protection technologies | A process for data protection impact assessment under the European general data protection regulation | Bieker et al. 2016 | There various technological deficiencies amongst the data protection technologies used |
| 9th June 2021-12th June 2021 | Confirming technological deficiencies from existing secondary sources. | The privacy, data protection, and cybersecurity law review | Raul (2018) | The literature points out that critical deficiencies exist between data protection technologies and hackers' technology. |
| 12th June 2021-17th June 2021 | Investigating the limitations of tokenization as a data protection measure. | Cyber security and data privacy | Herrmann, et al. 2018. | Advanced configuration techniques expose data protected through tokenization. |
| 19th June 2021- 22nd June 2021 | Investigating cloud protection deficiencies in the data privacy and protection from the primary data. | Data privacy and data protection insufficiencies. | Research author. | Technological advancements are gradually facing out cloud data protection. |
| 23rd June 2021-27th June 2021 | Investigating Firewall deficiencies from secondary sources | Application research of distributed Firewall based on intrusion detection. Microelectron Comput, | Hu et al. 2011 | Firewall cannot protect against internal attacks. |
| 28th June 2021-30th June 2021. | Investigating the deficiencies of password technique in protecting data | Data privacy and data protection insufficiencies. | Research author | Password technology is fast facing out of relevance in data |
| 31st June 2021 -5th July 2021 | Investigating the deficiency of schedule backup in protecting data | Weaknesses of Compliancy for Data and Storage | Goodman and Rowland, 2020. | The use of backup schedules belongs to an outdated generation. |
| 5th July 2021-8th July 2021. | Finding solutions to the cloud protection deficiencies identified. | Cybersecurity and data privacy. | Herrmann, et al. 2018. | Adjusting the current data protection techniques with the hackers' technology will boost cloud data protection. |
| 9th July 2021-12th July 2021 | Finding solutions to the Firewall deficiency identified | Application research of distributed Firewall based on intrusion detection. | Hu et al. 2011 | Scaling the developing technology adopted in Firewall will improve its performance against hackers. |
| 13th July 2021-15th July | Finding the solution to the password deficiency identified | The privacy, data protection, and cybersecurity law review | Raul, 2018. | Intensifying the complexity of password techniques will boost their performance against hackers. |
| 15th July 2021-20th July 2021. | Choosing the testing mechanism for the proposed technological advancements. | Deficiencies of Compliancy for Data and Storage | Goodman and Rowland, 2020. | The proposed technologies can be tested by observing their performance against known hackers' technology |
| 21st July 2021-28th July 2021 | Testing the suitability of the technological advancements proposed. | A process for data protection impact assessment under the European general data protection regulation. | Bieker et al., 2016. | Improved technology is relevant in subduing the contemporary imminent cyber-attacks. |
| 29th July 2021-5th August 2021 | Confirming the test results of the suitability of proposed remedies through second testing. | Improving cybersecurity awareness and training programs with data analytics. | Korpela, 2015. | Improving Firewall technology and tokenization techniques will help in subduing cyber-attacks. |
| 7th August 2021-11thth August 2021 | Configuring the new technological advancements. | Privacy protection and data security in cloud computing: a survey, challenges, and solutions | Sun, 2019. | Configuring the proposed remedies eases their compatibility with the current data privacy and data protection interventions. |
| 12th August 2021-14th 2021. | Implementing the configured remedies by merging them with the existing data protection technologies. | Deficiencies of Compliancy for Data and Storage | Goodman, and Rowland, 2020. | Configured technologies are compatible with existing technologies used in data protection. |
| 14th August 2021-15th August 2021 | Testing the performance of the new data privacy and data protection techniques. | Improving cybersecurity awareness and training programs with data analytics. | Korpela, 2015. | The new, improved techniques are effective in averting existing hackers' advancements. |

**Part three:**

**Introduction**

The proposed project seeks to improve the current data privacy and data protection technologies fueling increased cybersecurity issues. The project will ensure by scrutinizing the currently existing data privacy and data protection techniques to establish the likely loopholes that cybercriminals could be capitalizing on. The relevant literature detailing the technologies developing configurations shall be critically sought to establish the technology adopted. Besides identifying the loopholes, necessary technological improvements shall be proposed to boost these data privacy and data protection technologies against imminent hackers' attacks.

The inspiration of this project is based on the prevalence of cybersecurity issues in contemporary society. According to the cyber-attack theory, at least 45% of the overall cybersecurity issues emanate from poor data privacy and data protection mechanisms. Current hackers have mastered the art of manipulating existing data privacy and data protection measures and thus exposing users to numerous cyber-attacks (Korpela, (2015). The current data privacy and data protection technologies such as firewalls, encryptions, passwords, cloud data protection, and tokenization are gradually getting overtaken by technological dynamicity (Sun, 2019). The technologies used in developing these cybersecurity measures do not stand a chance to the advanced hackers' pedagogy. This phenomenon necessitates research to establish how best these technologies could be improved to protect users' data effectively.

The scope of the proposed research extends from examination of the current data privacy and data protection technologies to implementation of the new advanced data security parameters. The initial stages of the research shall critically review the technologies used in developing the existing encryptions measures, Firewall, password techniques, cloud data protection mechanisms, and the tokenization technique. The research shall then include extant research for necessary interventions that could boost the performance of these technologies against any hackers' attacks. Besides literature research, the study shall also borrow from the creative innovation projects achieved in class. The last section of the study will integrate the proposed technological advancements with the current data privacy and data security technologies.

The SMART objectives for the proposed project are expounded as follows:

***Specific:***

The project targets improving the performance of the existing data privacy and data protection parameters as they contribute to the underlying issues of cyber-attacks.

***Measurable:***

The measurement technique for the project will entail testing the performance of the proposed advanced data privacy and data protection technologies with some of the known 'hackers' technologies.

***Attainable:***

With the current literature provision, the course innovative projects achieved in my learning experience, and a generous schedule, it is practical to find relevant improvements to facilitate existing data protection measures against hacking.

***Relevance:***

The research to improve the technologies used in developing data privacy and data protection is in context with the contemporary cyber issues. Most cyber-related crimes capitalize on ill technologies adopted in upholding the privacy and security of data from malicious access.

**Research Questions:**

The following research questions shall guide the proposed study:

1. What are the emerging trends in computer/cyber security theories and techniques?
2. What is the relevance and prevalence of data privacy and data protection as a factor in contemporary cybersecurity issues?
3. What are some of the data privacy and data protection technologies used concerning cybersecurity?
4. What are the limitations of the technologies stated above in addressing contemporary cybersecurity issues?
5. What improvements would you recommend on the existing data privacy and data protection technologies to boost their performance?

**Literature Review**

A previous course assignment study that my group and I performed, intending to establish the prevalence of malware in the contemporary world. In our research, we consulted Albakri et al. (2019), Lloyd (2020), Steinke et al. (2015), Feng and Zhang (2020). They guided us to conclude that the new malware used by hackers adopt more advanced technology than the techniques used in data privacy and data protection mechanism. The study revealed that the development of modern malware such as Ransomware, Mobile Malware, Remote Accessed Trojans (RAT), and Adware adopt highly advanced technology (Korpela, (2015). This scenario exposes the current data privacy and data protection measures of averting cyber-attacks to advanced attacks than they can handle.

Bieker et al. (2016) performed a study to investigate the causes of numerous cybersecurity postulates that the data privacy and data protection interventions are not sufficient to avert imminent cyber-attacks. The study, which based on a survey conducted using the administration of questionnaires to various software developers, concluded that the technology adopted by hackers is gradually surpassing the technologies used in developing the data protection measures such as encryptions, Firewall, password techniques, cloud data protection mechanisms, and the tokenization technique (Sun, 2019). This study postulates a malicious speeding of technological advancement by hackers facing the existing anti-cyber-crime technologies.

A similar study performed by Lloyd (2020) to investigate the effectiveness of cloud data protection and tokenization techniques concluded that the technologies are insufficient in averting contemporary cyber-attack advancements. The research designed as a cohort study sampled numerous cases where cloud data protection and tokenization techniques have failed. The study points out that a common causative of the current cybersecurity issues is the ill protection of data from malicious access. The author noticed that the hacking technologies used in cracking the cloud data protection assume more advanced configurations than the current generation of technology. This scenario ostensibly accounts for the contribution of technological insufficiencies in data protection to the overall issue of cyber-attacks.

Raul (2018) also performed a study to investigate the suitability of the Firewall as data privacy and data protection measure. The study involved sampling various users of the Firewall technology and gathering their responses regarding their experiences in using the Firewall technique. The study concluded that though Firewall is relevant in protecting external attacks, they are vulnerable to internal attacks. Raul (2018) argues that 85% of the Firewall applications are insufficient in averting hacker's activities emanating from within the computer system. This scenario exposes users to Trojan attacks that mainly originate from the computer system. The scenario depicts that the Firewall technology used in data protection and data privacy is not sufficient to repel imminent cyber-attacks.

Besides, Steinke et al. (2015) performed a study to analyze the effectiveness of Pseudonymisation as data privacy and data protection intervention. The study concluded that though the technique effectively strips identifying information that hackers capitalize on in specifying their attacks, the technology still faces tough competition from hackers' advancements. Steinke et al. (2015) lament that contemporary hackers have mastered and can reverse the (General Data Protection Regulation) technology GDPR deployed in effecting Pseudonymisation as a protective measure for data. Similar to Hu et al.'s (2011) conclusions, the current data defense mechanisms are developed on outdated expertise due to the dynamicity of the present technology. This scenario reaffirms a technological insufficiency in the performance of the various data privacy and data protection techniques in use.

A follow-up study was performed by Hu et al. (2011) to establish the possible improvements that can be reflected in the contemporary technologies used in data privacy and data protection. The study concluded that improving the technologies used in data protection would help match the dynamicity of technology exhibited by contemporary cyber attackers. A similar recommendation was drawn by Feng and Zhang (2020) in a study to investigate the causatives of rampant cybersecurity issues in the modern world. Feng and Zhang (2020) quote, 'the good guys should scale up their technology to catch up with the bad guys' technology. There is an existing race of technological advancement between hackers and ordinary computer users, and the latter is widely losing.

Lloyd (2020) advanced his study on the reasons for the failure of the Pseudonymisation technique in ensuring cybersecurity. The research concluded that hackers discovered the concept of revealing user identities concealed through Pseudonymisation. Lloyd (2020) accounts that contemporary hackers have staged advanced techniques of reverting almost all the data privacy and data security interventions. A delay in advancing protective technologies causes this phenomenon. The study also concludes that contemporary cybersecurity issues can only be solved through scaling up the data privacy and data protection technologies to match the hackers' technology.

**An illustration of the body of knowledge**

Cyber Security

Compromising

Data privacy and Data protection

Out date

Cloud data protection

Out dated

Encryptions

Out dated

Tokenization

Advanced

Out dated

Firewall

Advanced

Advanced Advanced

RAT Trojan

Mobile malware

Adware

Ransomware

**Research Methodology and Planning**

***The study design***

The proposed research will adopt two research designs in different stages of the study. In the preliminary stage, the research shall deploy a descriptive study design. At this stage, the research will scrutinize the recommendation of various scholars and researchers to improve data privacy and data protection techniques and a more significant extent, cybersecurity. The advanced stage of the research study will deploy an experimental study design. The study will involve testing various recommended technologies against the current hackers' technology. The recommended improvements will be experimented with to verify their suitability in protecting data against contemporary hackers.

***Research Approach and Data collection***

Based on the nature of the study as guided by the research questions, the study will consider previous classwork and group projects as the primary source of information. The various course projects' conclusions will be regarded as the introductory guide to the study. Besides, peer-reviewed scholarly articles and Books shall be considered secondary sources of information. Secondary data shall be sourced from relevant databases such as google scholar. The guiding search terms for the secondary search will be; cybersecurity, data privacy and data protection, improvements in modern data protection, and new malware. The obtained results will be vetted based on the author's credibility, year of publication, and their precisions in responding to the research questions.

**The Project Plans**

The proposed research is scheduled to be covered in 10 weeks. The study will involve tracking the potential technological deficiencies in new data privacy and data protection interventions in the first two weeks. Both the course group projects and secondary sources identified will be sought to investigate the outstanding technological limitations existing in data protection. The following week will then be spent locating the identified technical limitations in the data privacy and data protection interventions currently used. This stage uses the secondary electronic database such as Google scholar as the primary resource.

Nevertheless, two more weeks will then be spent locating possible remedies to the identified technological limitations. The primary resources to be used during this stage are the recommendations from the previous group projects. Also, scholarly suggestions from existing literature will be sought to gather relevant solutions to the identified technological deficiencies. The research will then cover additional three weeks to experiment with the suitability of the remedies proposed towards improving the performance of data privacy and data protection technologies. The leading resource for this stage of the plan will be the secondary sources drawn from reliable electronic databases. The last step of the research will involve incorporating the identified and experimented technological advancements (Herrmann et al. (, 2018). This stage will include configuring the recognized technological advancements to match the hackers' technology.

**Gant Chart illustrating the project plan throughout the ten weeks:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
|  |  |  |  |  |  |  |  |  |  |

Critical Tracking potential technological deficiencies.

Locating the identified technological limitations.

Locating possible remedies to the identified technological limitations.

Experimenting with the suitability of the proposed remedies.

Implementing the proposed and experimented remedies.

**Risk Assessment and Management**

The proposed research shall be exposed to the risk of biases. Since secondary sources of information are vital resources in the project, there is a risk of potential bias from scholars' perceptions. However, this risk shall be screened by vetting the credibility of authors. Besides, the study is at risk of gathering irrelevant and outdated recommendations to improve the current data privacy and data protection technologies (Herrmann et al. (, 2018). However, the risk shall be screened by vetting the year of publication for various articles and books. Moreover, a specialist in cybersecurity issues will be considered the ideal authors of the secondary sources sought.

Moreover, the proposed research is vulnerable to the risk of misleading information. The secondary information gathered in developing the research study could be tricky. Authors who produce various publications could be interested parties in the dynamics of cybersecurity. This phenomenon can result in the production of misleading information that could limit the practicality of the proposed research project. However, the risk of misleading response will be assessed and averted by examining the various authors' credibility and achievements consulted.

The research project could face the risk of timeframe constraints. According to the breadth of cybersecurity topics and the extensive experimentation required in the field, the plan is likely to exhaust the scheduled time before it is completed. This risk will be assessed and managed by ensuring that only the essential facets of the study were preferred. In the event of time laps in any research stage, an extra day has been scheduled before the next step ensues to clear up the unfinished tasks.

Moreover, the proposed research faces a legal risk as most of the technology versions in the market assume copyright measures. Software information stored in secondary sources of information is under copyright protection. This means that it is illegal to borrow someone's technological ideas without due consent. However, this risk will be managed by seeking permission from the identified scholars to develop more advanced technologies. Besides, consent shall be sought from the (General Data Protection Regulation) GDPR to explore their protected information regarding the potential improvements that could affect the current data protection and data privacy techniques.

**Conclusions**

The prevalence of cybersecurity issues in contemporary society is fueled by outdated technologies in data privacy and data protection. The technology used by hackers has surpassed the configurations used in developing the existing data privacy and data protection technologies. The dynamicity of technology postulates a technological deficiency in the data privacy and data protection measures adopted in contemporary society. Scaling up the data privacy and data protection technologies is a relevant initiative in addressing cybersecurity issues. The development of this research attached to consideration of various facets as follows:

***Ethics:***

The subject of cybersecurity commands gross ethical consideration as it touches on privacy and user data protection. Therefore, the proposed research is planned concerning the ethical obligation to seek consent from authors before using their literature in advancing publications. Besides, the research is conscious of the moral responsibility to raise socially accepted solutions in solving the cybersecurity issue as a contemporary social issue. The study also majors on upholding modesty to produce accurate and unbiased conclusions that can offer reasonable solutions to the underlying problem without misleading the target audience.

***Legal:***

Also, the proposed research is considered to a legal obligation to seek permission to use materials under copyright protection. The investigation believes that the secondary sources recommended are works of authors that the lawful copyright provision has protected. Besides, the study is also conscious that a wrongful branding of someone's genuine work as malware amounts to gross defamation, which is a crime. Considering all these legal issues, the research shall seek copyright consent before using protected secondary sources of information. In addition, the study intends to confirm the relevance, authenticity, and use of various software before terming them as malware.

***Social:***

The study is conscious of the social consideration and obligation to provide solutions to the problems affecting humanity in society. Researchers' social responsibility is to identify societal problems and devise necessary interventions to address the underlying issues. The proposed research considers cybersecurity as a societal problem. In this context, the study's social responsibility is to find necessary solutions to cure the cybersecurity menace.

***Security:***

The proposed research credibly appreciates that cyber-attack issues as vital security issues in contemporary society. For instance, many recent bank robberies have been perpetrated using hacking technologies, and most of the cases are still undecided in the court of law. Some of the hacking technologies used in recent bank robbery crimes could be available in the public domain. Therefore, the research is careful not to explore security-related issues before the court.

***Professional considerations:***

The nature of the research proposal assumes a professional approach as it involves exploring the proficient and skilled field. The proposed research intends to establish factual findings with relevant evidence in the area regarding this consideration. Besides, the information sourcing technique deployed in the study consults professional perceptions from the various secondary sources of information deployed.

**Appendix**

**ETHIC CLEARANCE REFERENCE:** Cyber Security Project

**FORMAL DETAILS**

**Name and student number:**

**Supervisor:**

**Title of the research project:**

Cyber Security Project

**Purpose of the research:**

The proposed project seeks to improve the current data privacy and data protection technologies that are fuelling increased cybersecurity issues. The project will ensure by scrutinizing the currently existing data privacy and data protection techniques to establish the likely loopholes that cybercriminals could be capitalizing on.

**Research methodology:**

The proposed research will adopt two research designs in different stages of the study. In the preliminary stage, the research shall deploy a descriptive study design. At this stage, the research will scrutinize the recommendation of various scholars and researchers to improve data privacy and data protection techniques and a more significant extent, cybersecurity. The advanced stage of the research study will deploy an experimental study design. The study will involve testing various recommended technologies against the current hackers' technology. The recommended improvements will be experimented with to verify their suitability in protecting data against contemporary hackers.

**Funding source (or anticipated funding source)**

Personal

**Duration of the research project:**

Ten weeks

**Contact details for the applicant:**

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