

WE NEED TO UNDERSTAND HOW TO ORGANISE KNOWLEDGE ABOUT GENOME AND PERSONALITY AND OTHER BEHAVIOURAL PATTERNS OF INDIVIDUALS

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Human Race has eight billion people today with unique and complex genome across the globe. This is a vastly complex system. Around 6 billion letters make up total code, of which 99.9% are literally identical for all human beings. Now let us just work out simple mathematics of how much space would be taken to just record the genetic variation. Let H_N denote the number of humans and v the snip locations with variability.

$$H_N v = 8 \times 10^9 \times 6 \times 10^6 = 4.8 \times 10^{16}$$

This is substantial data volume. So the first challenge in the grand challenge of understanding precise Genetic Uniqueness in Human Personality and Behaviour is to produce careful methods to represent and manipulate association knowledge for genetic variation versus behavioural patterns and personality.

Human beings are not yet used to handling in our minds the nuances of this vast variety in a comfortable manner. How do we elegantly and without too much effort handle knowledge of any type of this level of complexity in a meaningful way?

1. WHAT ARE BENEVOLENT INTENTIONS TOWARDS THE HUMAN RACE?

We love the Human Race, and we want to improve the Human Condition. We might want to understand all aspects of what makes a human life worthwhile and satisfying at the individual level. We cannot actually do anything intelligent and substantial and sustainable to make lives of our Beloved People the Human Race substantially better without some sound understanding of how to manage *knowledge* about all the people of the human race that is valuable to understand them. I am a Human Being but I cannot simply infer what is the case for all eight billion human beings by self-observation. Other people differ in some ways from me and are similar in other ways. Precise knowledge has to be not just recorded but understood in order to benefit the Human Race.

2. BIBLE, QURAN, TORAH, ETC. ARE NOT GOOD ENOUGH

Whatever might be the great and benevolent Divine pronouncements of God and his Prophets and Sons and others recorded in the Holy Scriptures, they are not knowledge about the Human Race at a level of detail and clarity that will actually allow us to make good decisions that will improve the Human Condition. We are faced, then, with the problem of understanding vast amounts of data and knowledge in a meaningful manageable manner before we can be said to be serious about benevolent action to improve the Human Condition.

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3. THE DELICATE ISSUE OF SCIENTIFIC MODELS AND MODELS FOR EASE OF HUMAN UNDERSTANDING

Nature can be extremely difficult to decipher. Our scientific genius is pushed to the very limits to find laws of Nature that are true. Scientific models, as a result have no obligation for public understanding at all for they have to pay their tribute to Nature. As a result some good scientific theories and models are inscrutable for ordinary laymen. This is not a problem at all for pursuit of scientific truth. Physics often has had these issues, and this is fine.

Things are different for biology, psychology, and social sciences. Here it is actually important that knowledge is not just organised in a way for great scientific models that are accurate versus Nature. It is also equally important that the resultant knowledge is made available to the lay public in a way that is easy to understand without specialised training and multiple doctorates to enlighten and also to improve the whole Human Condition.

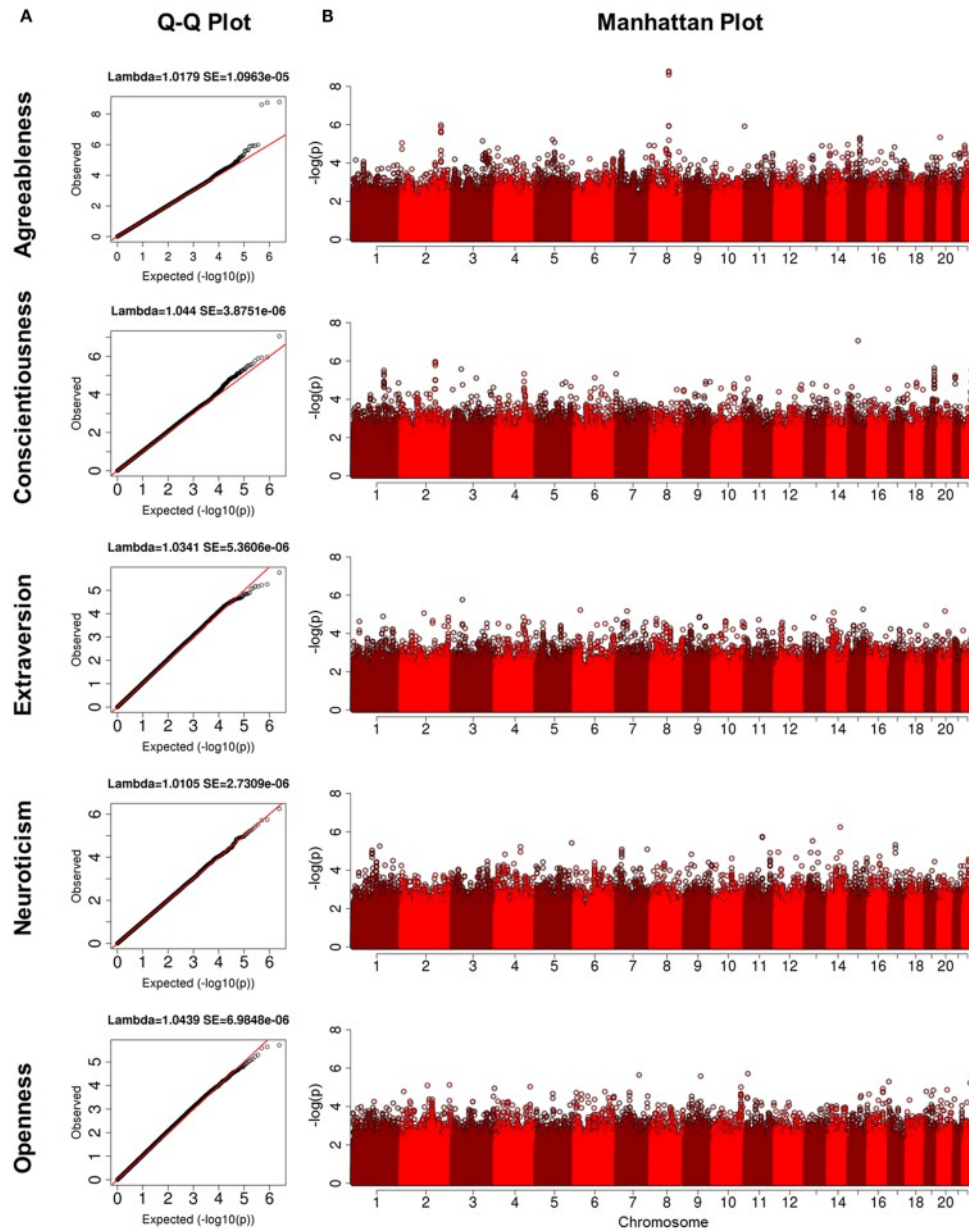
The balance of the two is both more important in biology, social sciences, psychology, and also more difficult because the subject matter is enormously complex and vast.

We also live in an extraordinarily primitive age where 'philanthropy' is just a word used by glib malevolent misanthropists and therefore it is not understood that philanthropy is a substantial component of every individual and a necessity for high life satisfaction. I will advocate for the view that we gain knowledge of Nature primarily for philanthropic aims, and our philanthropy is not a matter of public relations to *seem* good but because we believe that love of our Beloved People the Human Race is the primary motivation for engaging in these sciences.

4. WHAT IS KNOWN ABOUT RELATION BETWEEN PERSONALITY AND GENOME?

There have been some studies on genome snips and big five traits [1]. There general conclusion is that there are some signals for snip association to big five but the variability explained is in the 1% range.

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The graph of variation tells you immediately that fair amount of work would be needed to get a clear result and the authors of [1] suggest that a combination of large numbers of snips might be able to get clean signal for personality traits.

REFERENCES

- [1] Harold Bae, et. al. Genome-Wide Association Study of Personality Traits in the Long Life Family Study, Front Genet. 2013; 4: 65