

God created all things. The following is a proof of that using adaptive machine learning software and mathematical induction.

You can access the interactive application at

<https://lovesr.shinyapps.io/intelligentdesignproof/>

As the word of God says,

For the invisible things of him from the creation of the world are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are without excuse:

Romans 1:20

This is easy to understand. Mankind creates very many intelligently designed things. Obviously, some being far more intelligent than mankind created all living things including mankind. The following will show that this is true.

There exists today software that performs adaptive machine learning. R software and Python are some of the software languages that have built in training models of different types. For example, this type of software can be used for medical outcomes to determine whether a patient has or will get various bad medical conditions. A decision threshold can be adjusted based on whether false positives or false negatives are to be minimized. Obviously in this case, false negatives must be reduced because the patient will not seek additional medical tests and may suffer great harm. In false positives, the patient is anxious for a while, but additional tests relieve that.

To train the model, the values for different attributes of a known set of items are gathered and are used to produce a dataset. The outcome for each item is in the data set, in this case whether designed or not designed. In this case, the items would consist of items known to be created by mankind and items which are not created by mankind. Living things would not be included as these are the unknowns.

After the training phase, the system will identify which attributes contribute what portion to the decision. Some attributes will have very little or no relevance. This is the same as the attention mechanism of neural networks. They are just the eigenvalues and eigenvectors of the system. This information can then be used to reduce the data collection needs to just those important attributes. In this case, things like functional information content, organization both physical and functional of the information, 3D shape different from random things, chemical composition different from random things, irreducible complexity of not only the living things or cells but composed of irreducible complexity down through several sub levels will stand out. Attributes such as size, weight and density will not have any bearing.

After the initially training phase, a validation phase is performed with a validation dataset of different known items. The validation data set and the training data set can be from a master data set with is split into the validation data set and the training data set. Living things should not be included in the validation data set also as these are the unknowns. This then is used to evaluate how accurate the model is. A failure at this phase would show that the data design phase had flaws.

The trained model is then fed data for unknown items with their attributes. This would be done for living things, cells, etc. The trained system then gives a predicted outcome for each item, whether designed or not, based on the different attributes for each item. It is for sure that all living things will come out as designed.

This model can then also be used as a mathematical function that takes inputs, and the output is one or more intelligent designers or none. That function can then be used to do a proof through simple mathematical induction. The final result will be that all living things are created by God. And based on that, the no God assumption must be retracted from all science worldwide immediately in the areas of origins and the long ages of things.

Proof by mathematical induction using the adaptive model above represented as the function, $F(n)$ defined as

$F(n) = 1$ for $n \geq 1$ with n being an integer ≥ 0
else $F(n) = 0$

for $n = 1$, $F(1) = 1$

assume $F(n) = 1$

$F(n+1) = 1$ by definition of $F(n)$

End proof.

Now assume a false positive rate of 20% for the above mathematical function that the adaptive model performs. With over 10^{40} cells that have ever existed, and with over 10^{40} viruses that have ever existed, the odds against that an Intelligent Creator did not create all things are greater than $(0.2)^{(2 \times 10^{40})}$ to 1 or greater than $10^{(10^{40})}$ to 1. These odds only considered viruses and cells as single units. But they are composed of many intelligently designed subunits down through several layers and interconnected in an intelligently designed way. When including just these, the odds against that an Intelligent Creator did not create all things are far greater than $10^{(10^{50})}$ to 1.

The learning model can be accomplished using many different software languages. Most software languages have many different learning models available. And any program can employ multiple learning models, even hybrids constructed from a variety of different models. The data for the datasets can be contained in CVS files, or spreadsheets like Excel, or SQL tables. Most software languages have data input packages built in or third-party packages to handle these data sources. The data can be

stored locally or made available through the Internet or stored in the cloud. Thus, many different software languages, each with their own learning models, can use the same data sets, thus establishing a very flexible and modular system with a plug and play architecture. The data can be in various formats, in various databases of different providers, in various locations, with data connectors and software languages each with many machine learning packages and thus very many visualization options inherent to each software language. The system can be hosted on a web server deploying the application and retrieval from anywhere in the world. For example, I have used RStudio Shiny to do that.

There are a number of modern AI systems which can be used. However, they can only be used if they are disconnected from “scientific” knowledge available on the Internet as this would bias the outcome. These modern AI systems can just be used with their machine learning packages. And only raw data can be used. It is the learning model which makes the decisions.

One problem that will arise is scaling the system to handle the vast number of possible items. One solution is to use a subset of representative items and adding a corresponding representative number of duplicates for them. I have collected data into 9 tables. Five are for things that are not alive and not made by mankind, things made by mankind which are simpler, things made by mankind which are more complex, things that are alive but without modern biological knowledge, things that are alive at the multicellular creature level, and cells, with 2 each of the first 3 kinds for the validation step. Note that each of these shows increasing aspects of design and will be identified as such by the machine learning. The system will naturally show the separation of these items if viewed in N space.

In this way, I was able to use the appropriate 5 datasets to match what technology and science has allowed to exist and to be known today. I was also able to use just 3 (non-living things not made by man, made by man but not complicated, and living things). This second option represents the situation that existed around the time of Christ. These options show that the Bible is true when it says “being understood by the things that are made” which would have been true at the time Romans was written but also hold in our modern times when “knowledge shall be increased” as predicted by Daniel for our modern age. For the situation that exists today, and also for at the time of Christ, the results show that the odds against that an Intelligent Creator did not create all things are far greater than $10^{(10^{12000})}$ to 1 or greater than a googol to the 120th power to 1. And no false classification for any type of item. Thus, the Bible is true under both cases.

But what about things like atoms, subatomic particles, and elements? Do they show design? Consider atoms. They have a definite number of protons and neutrons in the nucleus. Each element has an exact number of protons. For each element, there are

different isotopes each which has a specific number of neutrons. Some of these isotopes are stable and some are unstable and are prone to radioactive decay.

Atoms have electrons that reside in electron orbitals. For neutral atoms, the number of electrons equals the number of protons. The electrons obey the Pauli exclusion principle as they fill up the orbitals. This configuration can be predicted if all electrons are in their non excited state. An excited electron can jump to a higher energy orbital if it gets the right amount of energy and will emit a photon of a specific energy if it falls back to a lower energy orbital. The electrons in the outer shell, determine the types of bonds the element makes.

Neutrons and protons are each made of 3 quarks. Electrons are not made of quarks. Protons have a +1 charge, electrons have -1, and the charge of the neutron is 0. Each has a definite mass which corresponds to a specific energy according to the equation $E=mc^2$ where c is the speed of light. The mass of the neutron is slightly more than the proton. The mass of the proton is about 1836 times that of the electron.

There are 6 types of quarks designated up, down, top, bottom, charm and strange. These are referred to as flavors. They also have a color charge. The electrical charge of quarks are fractional, the only elementary particles that have fractional charges. Each quarks also has a definite mass corresponding to a specific energy.

Photons have no mass, have no charge, and are not made of quarks. Photons are the particles of light. They have an energy which is proportional to the their wavelength governed by the equation $E=h\nu$ where h is Planck's constant.

Neutrinos have a mass. They have no electrical charge. They are not made of quarks. They very weakly interact with matter. Every second about 100 trillion neutrinos pass right through our bodies. Electron neutrinos also have a mass and no electrical charge, and are not made of quarks. Other particles are muons, muon neutrinos, tau particles and tau neutrinos. These all have mass, no electrical charge and are not composed of quarks.

Almost all subatomic particles have a corresponding antimatter version. Positrons are the antimatter version of the electron and have a +1 electrical charge. Anti protons have an electrical charge of -1, and anti neutrons are neutral. Antiprotons and antineutrons are composed of 3 quarks each. The positron, antiprotons, and antineutrons have the same mass as their counterparts.

Almost all subatomic particles have spin which can be a whole number or fractional, some with a positive or negative value of spin. The Higgs boson has no spin.

There are many other subatomic particles. Each has a set of attributes such as an electrical charge or none, a mass or none, a spin or none, composed of quarks or not. Some of these are gluons, gravitons, and bosons.

From the above, particles then have a set of attributes whether a define mass, spin, electrical charge, matter or antimatter, quark, composed of quarks or not, lepton or not. Some have no mass, no charge and no spin. Element are composed mainly of protons, neutrons, and electrons. Their properties and the electrons in their orbitals are what differnt molecular compounds are made of and their are many millions of these compounds with different formulas, properties and 3D shapes. All living things are composed of elements organized into molecules, some of which are very large and incredibly deigned.

I made 3 datasets of 20 representative items each. One is atoms and subatomic particles, another elements, and another electronic shells. Since testing has less of a scaling problem than training, I have used 10,000 each by making duplicates of these representatives. It is estimated that there are over 10^{86} elementary particles in existence in the visible universe.

The results show that all were classified as deigned with no exception and that the probability of against an error was greater than 10^{250} . Thus based on these things alone, the results show that the odds against that an Intelligent Creator did not create all things are greater than $10^{(10^{40,000})}$ to 1 or far greater than a googol to the 400th power. Combined with the odds against for all living things, the odds against that an Intelligent Creator did not create all things are far greater than $10^{(10^{500,000})}$ to 1 or far greater than a googol to the 5000th power.

And yet there are even more intelligently designed things in the universe, although at this point I have yet to figure out how to characterize this. Things like how gravity operates, and all the other laws of physics, which are extremely finely tuned and extremely orderly for all space and time. And on earth there are global systems which support life, like the nitrogen cycle, the water cycle, the carbon cycle, the oxygen cycle, the interconnectedness of all living things, and others. These obviously would increase the odds even more. Obviously, God created all things.

The major task was the data design, the selection of representative items for each group, the criteria for attribute assignment for a variety of items, and the collection of the data. It is the one that took the most time. The software design was easy since all the built in packages are designed to facilitate ease of use.

One last point to make. Our own minds have been trained to do this very thing and very quickly. So, you already know what things are manmade and which are not. And you also should know that living things are made by God. God had made man capable to understand this so that people are without excuse (Romans 1). God has also made it so

mankind can understand sin, because when you thought it was evil when someone did it to you, it was evil when you did it to others (Romans 2). These 2 things are sometimes referred to as general revelation, as it is available to all people without the written word which is referred to as revealed revelation. Thus, all people should seek out God to worship Him, understand what is right or wrong, and to obtain forgiveness for sins committed. The Bible is easily proven to be the true word of God, and thus what it says is true. Therefore, Christ is the Creator of all things and the only one that can save anyone from judgment. To understand the gospel of Christ, and for resources to understand the Bible and creation, go to

<https://www.the-gospel-of-christ.com/post/where-will-you-spend-eternity>