Just received the invitation after I put in your email. Feb 28, 6:01 PM



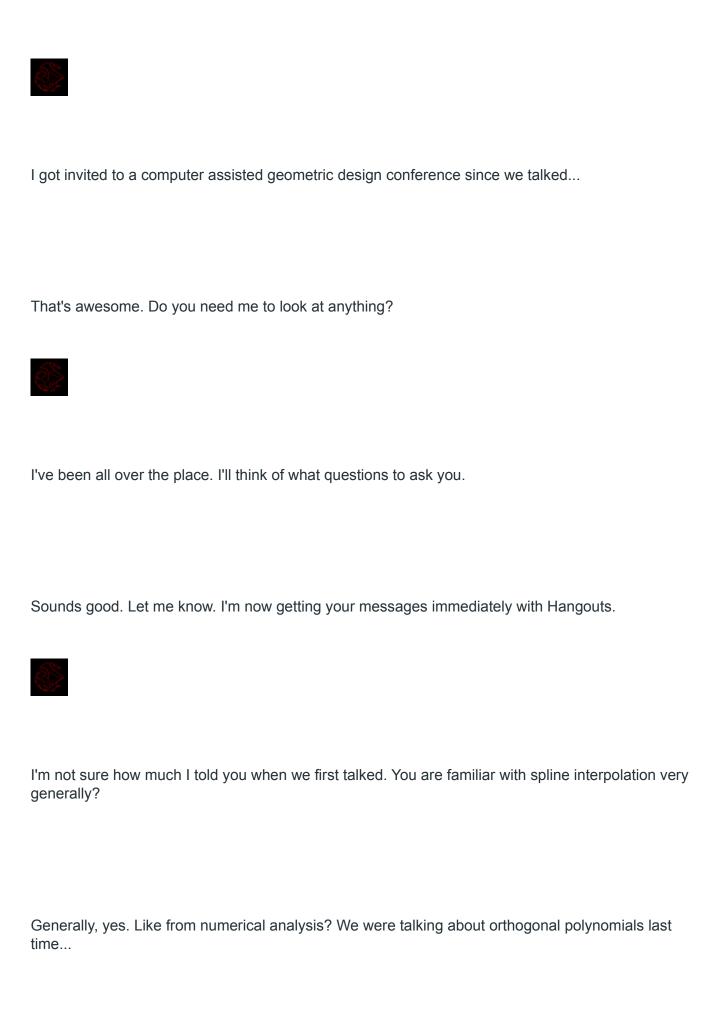
thank you so much

You're welcome



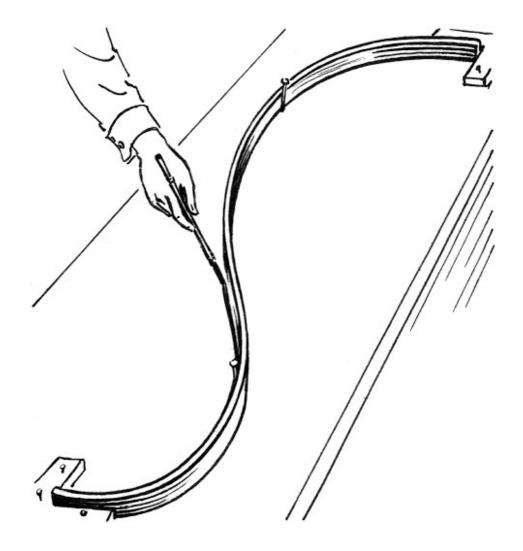
how have you been?

Doing school mostly.



| yes |
|---|
| splines used to have different meanings in math a few decades back |
| linear splines i.e. piecewise polynomial interpolation |
| |
| Right. |
| |
| and non linear splines i.e. piecewise spiral interpolation closer to nature |
| Or cubic is what I've seen |
| |

yeah that's the most common academic one

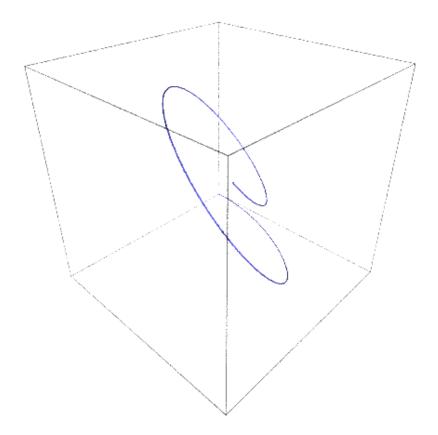


this is a mechanical spline

Ok. Can you send me a write up of what you think I can look at for you? Or just describe it here is fine.



| I'll send you a write up with a summary of what I've been doing with my team |
|---|
| |
| I ultimately want to compute the egf of a sequence defined by a recurrence relation |
| with arbitrary precision, fast |
| I've been playing around in sagemath a lot |
| |
| |
| |



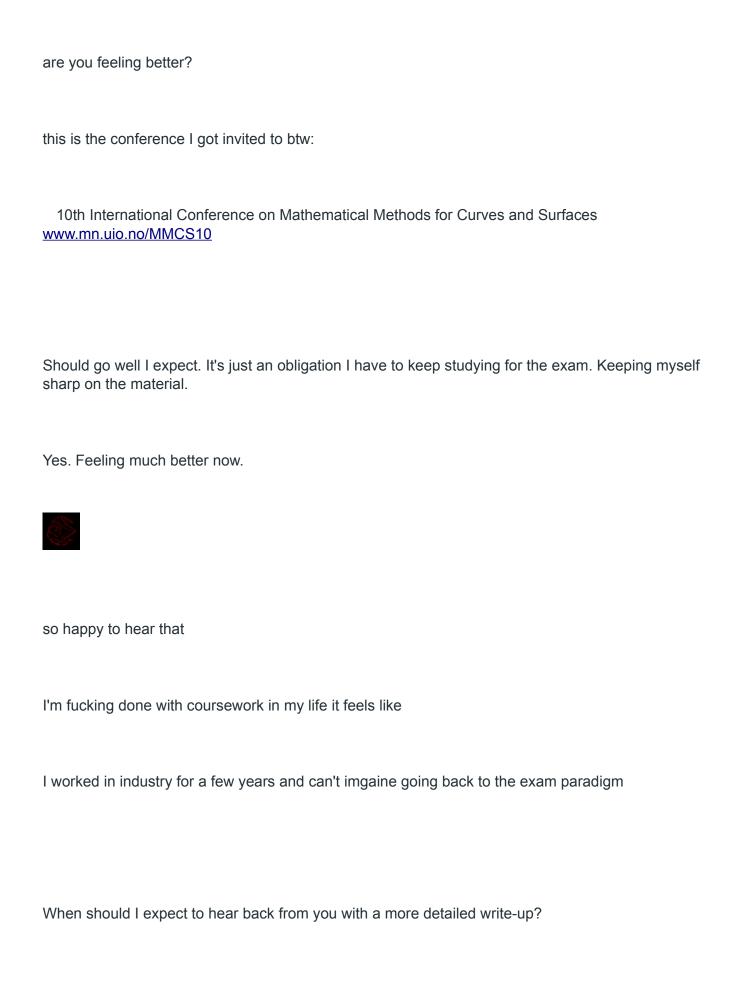
I use this function to draw this curve

it's a generalization of the euler spiral

I'm good with Python. Have written a SageMath package before. Is that what you're eventually going to want? A SageMath package?

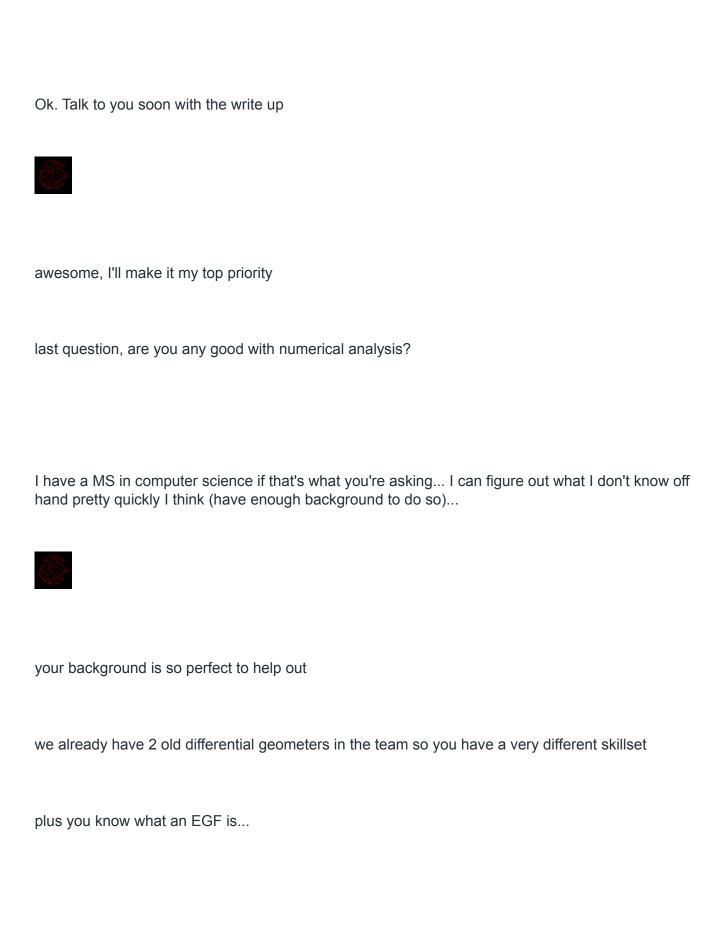


| my ultimate goal is new aesthetic 3d interpolation algorithms using pieces of the 3d spiral I am building |
|---|
| that will closely emulate pieces of wood or spring steel pinned to points in 3d space |
| I will see what I can do once you send me a write up. I am going to be very busy through the end of March with exams. After that my time frees up. |
| how are you doing with coursework? |
| how have you been? |
| Ok with coursework. I have one more comprehensive exam to pass in probability. It was put off until the end of next month due to some illness I had at the end of December. |
| I'm sorry to hear that |



give me maybe 48 hours, I've been putting it off because of new findings I'll be honest with you, ever since one of the organizers invited me... (after showing preliminary geometry work) it's been a bit stressful sort of balancing research and deciding what to write-up, present because I don't have a finished algorithm yet, just partial results would you like to skim some papers inspiring some of my work? as context, or just stick to questions I am facing right now? Let's just stick to what you are doing right now Like I said, I'm kind of tied up until the start.of April. After that we can talk generalization.

I sent you 2 papers with a note that you can check them out in April



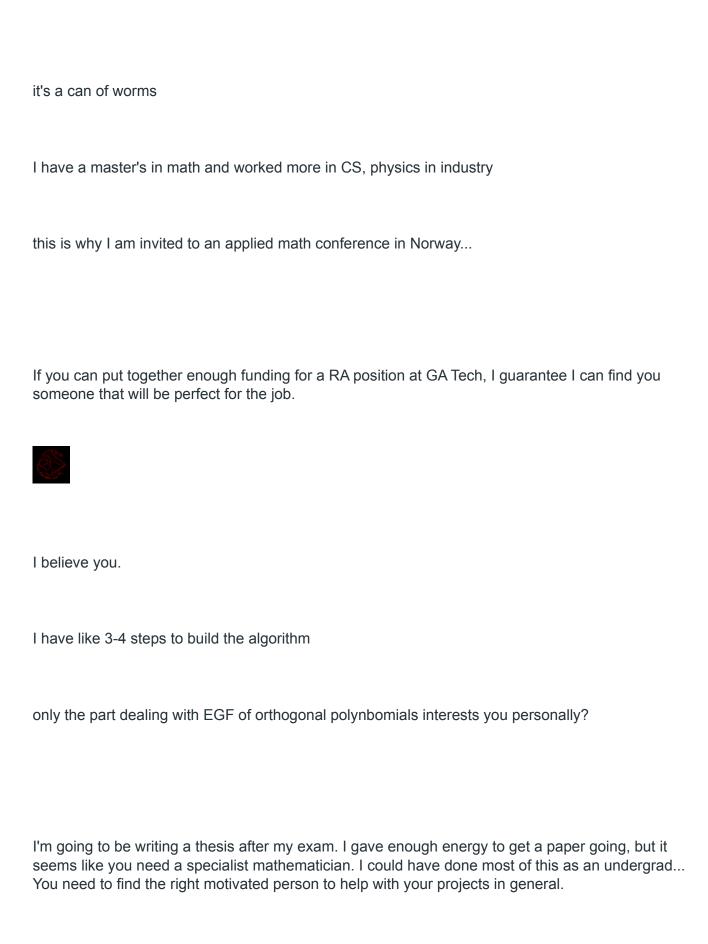


| it's too easy, I got so comfortable now I'm afraid I forgot how to type stuff, allocate memory |
|--|
| That's the beauty of Python. You don't need to go as low level as c/c++, unless you need to, in which case it's there! |
| I fear my mathematical physics fanaticism for fortran is dieing down |
| Yeah, well. |
| I have some other things to tend to. Can I talk with you in a few days? |
| |
| sure thing, good luck with your other work |
| Fub 28 7:01 PM |

| hi sorry for the write-up delay, I've been stuck in meetings with my main investor |
|--|
| That's fine. I told a friend who is better in numerical analysis about it. He also needs papers. Is that ok? |
| |
| that is great! |
| I need a numerical analyst! |
| this is the one thing missing in my crew |
| Most mathematicians make good numerical analysts I will pass the paperalong to him when you send it. |
| |

| that's very philosophical |
|---|
| have you or your friend ever worked/used splines? |
| another question for you both, how comfortable are you with quaternions? |
| I can tutor him |
| |
| ah good |
| Quaternions for me, no. Him probably is better at the algebraic stuff. |
| I sent you a drawing that illustrates a nonlinear spline in 2D (this has been done already) |
| I want to draw pretty curves like those on the sphere S^2 and later R^3 |







| I can promise that it is novel work |
|---|
| what I meant to say was that I used your paper for an integral form of certain functions I need |
| but since then, I've developped a quaternionic integral form, other expressions with my Geometer so the roadmap changed a bit |
| however if you still want to glance over the original EGF's of Meixner Pollaczek polynomials, maybe you can see something |
| I sent you an email with the generating functions of orthogonal polynomials that arise in my problem (with applications to quantum physics and 3d graphic design) |
| (and differential geometry) |
| please pardon my ignorance for the potentially stupid question |
| Sorry. Started talking to my neighbor. Wasn't listening for a bit. |
| |
| take your time |

I'm good with generating function identities. I might be able to see something. Happy to take a look. Mar 5, 9:21 PM

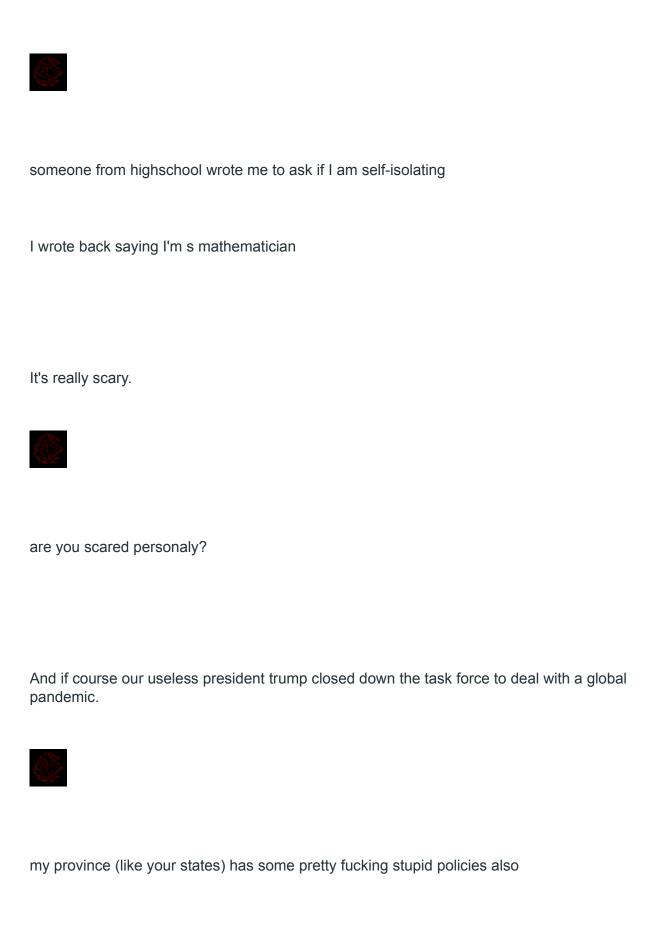




I was asked to submit art work for BRIDGES math-art in Finland

| this is what I made last minute, all in sage math with segments of the curve I have been studying and ray traced with tachyon |
|---|
| (also included in sagemath) |
| |
| Nice. |
| |
| |
| thank you! |
| do you like the image? |
| |
| It's nice. |
| |
| do you like visual art? |
| |







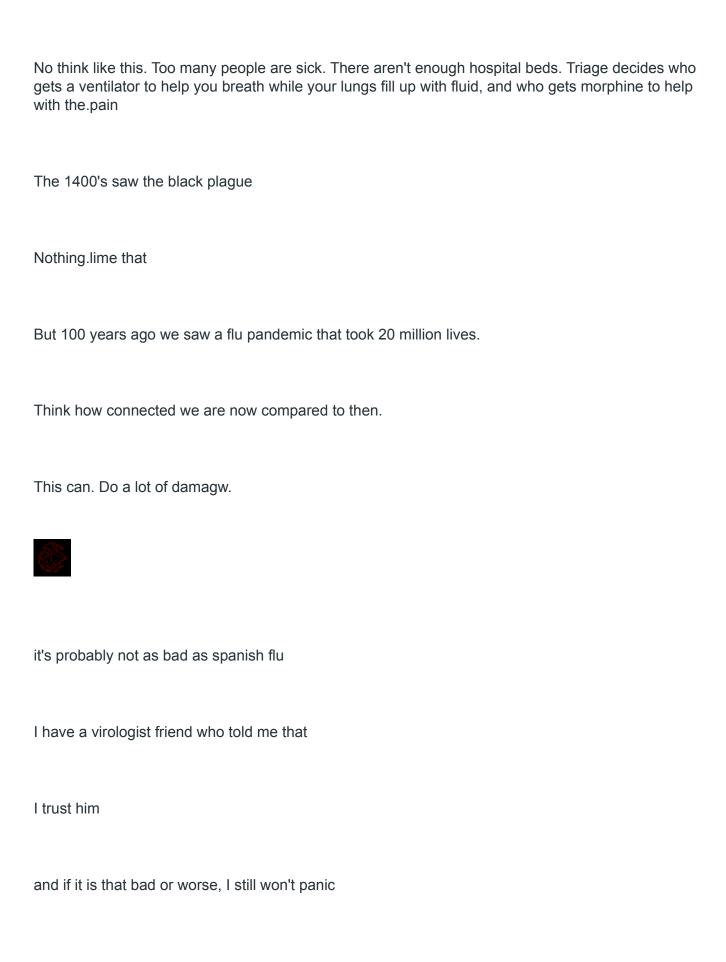
| It's actually very scary. A pandemic of this magnitude happens royghtly once a century. This time we're all much more connected by global travel |
|--|
| |
| I'm 30 btw |
| I'm 33 |
| I think we should count our blessings honestly |
| it's nothing compared to spanish flu a century ago |
| Yeah, but what do I do if my elderly parents get affected? |
| It's a real concern. |
| |

are they staying in, not working etc? They are retired. My mom just had back surgery m are you going to stay with them now that school is shutting down? I'm staying at grad housing. Trying to stay isolated. I sincerely hope you and your loved ones get through this ok. Me too. Ands yours as well.

and I hope you curtail the fear some is good to keep you safe but it doesn't help in big doses The reality is that this.is going to be a prolonged global pandemic. A month from now will feel much different. Please do what you can to say safe. I have washed hands with warm water and soap 10+ times today. Sounds ridiculous and ocd, but even 30 year olds can end up very sick from this virusm I appreciate the concern. I work from home and my clinician friends have been preaching the hand washing. I talked with.my adviser over video chat this morning. His daughter in law is a nurse. This is all going to get much worse before it gets better. I hope that it's all warning, but in the worst case things look really bad.

things can always get worse... we could get smashed into oblivion by an asteroid tomorrow







| I personally believe our society is sick not the majority of people they want to medicate. |
|--|
| but I am happy for you if you have something that helps |
| the percentage of people in math/physics/CS the system wants to medicate is absurd IMO |
| |
| I have an understated opinuon about that. Effexor is better than Lexapro, which I was in forever. It makes you feel more upbeat and talkative. |
| I also.like Adderall. |
| |
| adderall is basically math crack |
| |
| not something I could ever be prescribed |
| |
| This is an opinion piece, but that will make you more creative for a while |
| |

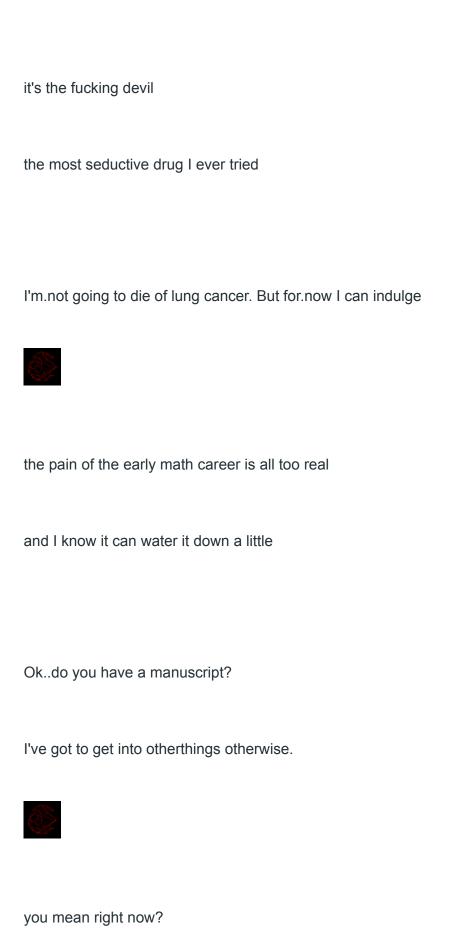
| I like it too much and avoid it |
|---|
| I.like it too. |
| Adult adhd is real. Just be careful with it |
| |
| I saw a professional after al his stuff struck me |
| and they couldnt diagnose me with anything |
| to be blunt, I think it's just life being a bitch with me |
| Try adult adhd if you want the prescription. |
| Find a specialis |
| |

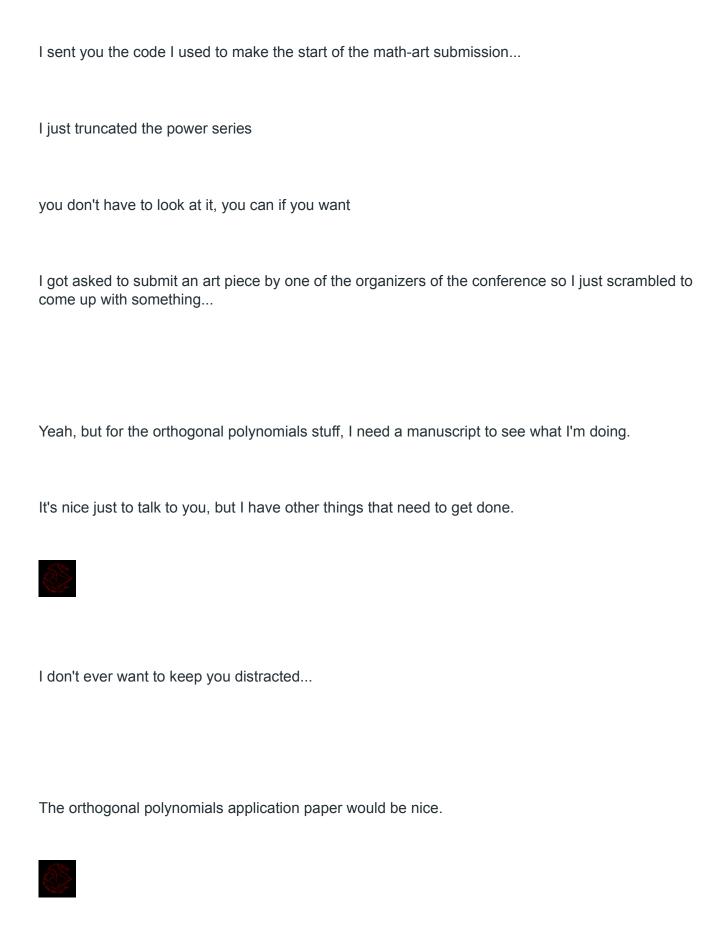
| you need a very strong will to not get hooked |
|---|
| I don't think I have it |
| a romanian chemist Lazar Edeleanu first synthesized amphetamine |
| |
| Yeah. That's always an issue. Take it as prescribed and your good. I have the HD part of it which means I can never really focus without trying the meds. |
| I will literally do 1/10 of everything I try without it. With it.i can function. This is 10 years later with a good doctor. |
| |
| do you feel some euphoria or it's just enough of a dose for you to be "normal"? |
| |
| It has recreational use too. I just take the pills everyday. Some days I take two and skip a dose. I.personally don't see the problem with "recreational" uses. |
| |

| it is no problem until it is one |
|--|
| I don't think it should be illegal etc. |
| If you are acting like a "junkie" then you shouldn't take.it. |
| but myself, I feel that I could develop a problem so I stay away from it |
| exacty |
| exactly |
| I understand that. I have abused before. Bad situation. |
| My doctor watches me closely |
| |

| do you meditate or pray? |
|--|
| I am more spiritual than anything else. Call it mediation. |
| I find it can work in a similar way to stimulants for building focus |
| it just takes obviously way more work than popping a pil |
| pill |
| I'm not awesome at mindfullness meditation. I like the repeat a mantra style better. |
| Yeah. The point is being able to be a le to control yourself on what you take. Musicians in the 60s used drugs to enhance mental cognition |
| |

| musicians, poets, writers, mathematicians have always used drugs |
|--|
| If you can't handle Adderall for more than an afternoon, don't take it. |
| I like the way an after noon of 1.5x my prescription makes me function |
| |
| with the potential for abuse. I stay away from chemicals except coffee |
| and sometimes a cigarette (obviously it's bad) |
| but I won't become a junkie |
| well maybe I am already a coffee junkie but one can function in that state |
| |
| Coffee isn't the same. I do still smoke however. Promised myself that through grad school. |
| |





| ok let me look at the problem I sent you again real quick and see what I should write you |
|--|
| |
| |
| |
| sometimes I do some really stupid stuff like write emails and they just float in the drafts |
| I sent you an email mar 5 |
| OP has the functions used for my 3d spline primitive |
| what I'd like to do is come up with some kind of numerical recipe to compute an approximation to those functions |
| I'll do a write up of my goals |
| I just want to pick your brain for a moment chatting now if that is ok with you |
| |

Our problem: When $\lambda=0,\, \varphi=\frac{\pi}{2},\, c=1,\frac{1}{2} \text{ or } \frac{3}{2},\, \eta\in\mathbb{R} \text{ and } x\in\mathbb{R}_{<0}, \text{ evaluate}$

$$\sum_{n=0}^{\infty} \frac{1}{\left(c+\frac{1}{2}\right)_n} Q_n^{\lambda}\left(\eta;\varphi,c\right) x^n$$

where $Q_{n}^{\lambda}\left(\eta;\varphi,c\right)$ denotes the c-associated Meixner-Pollaczek polynomials.

do you think you can think up a way to bound the tail of the series?

Do you need a sage math implementation?

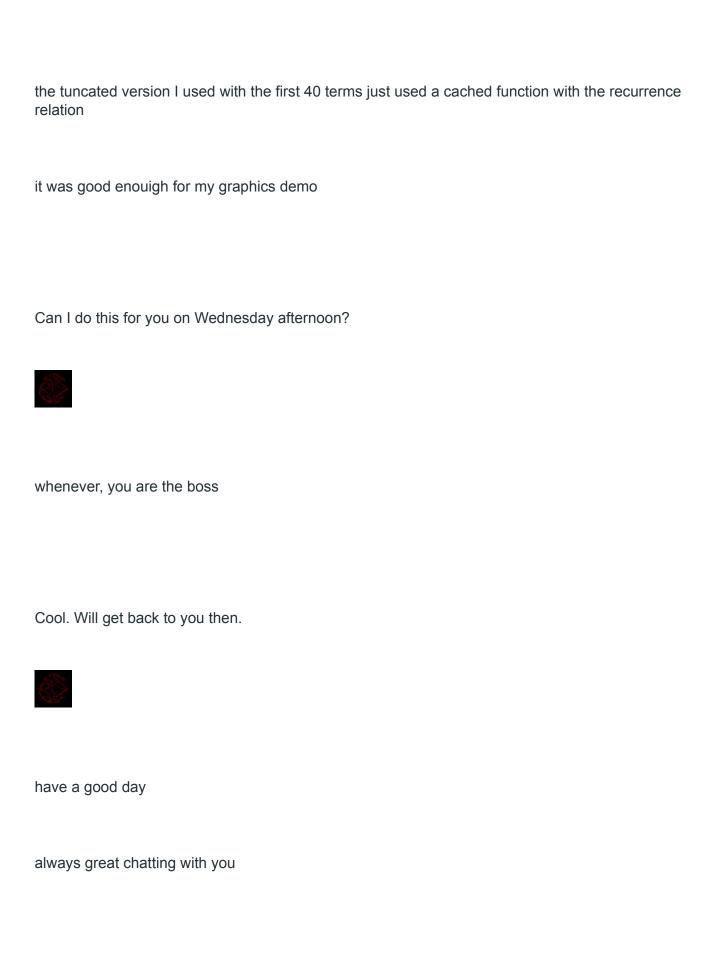


I think it would be cool personally

and I'd present it in my paper at the curves/surfaces conference in Norway (when it is held eventually but doubt June now...)

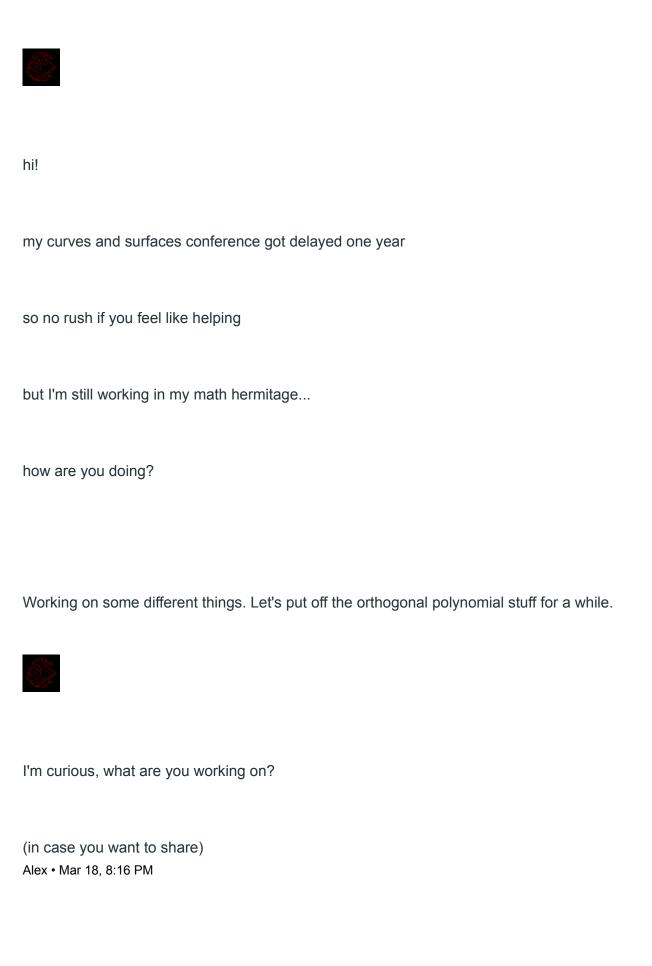
Let.me work on it. Could take an hour.

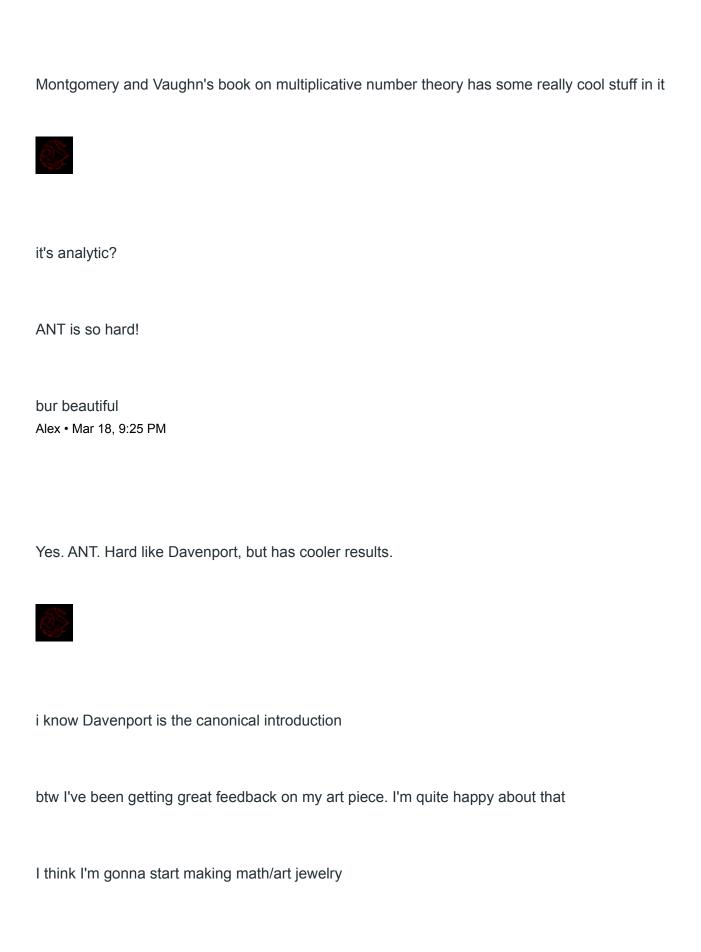




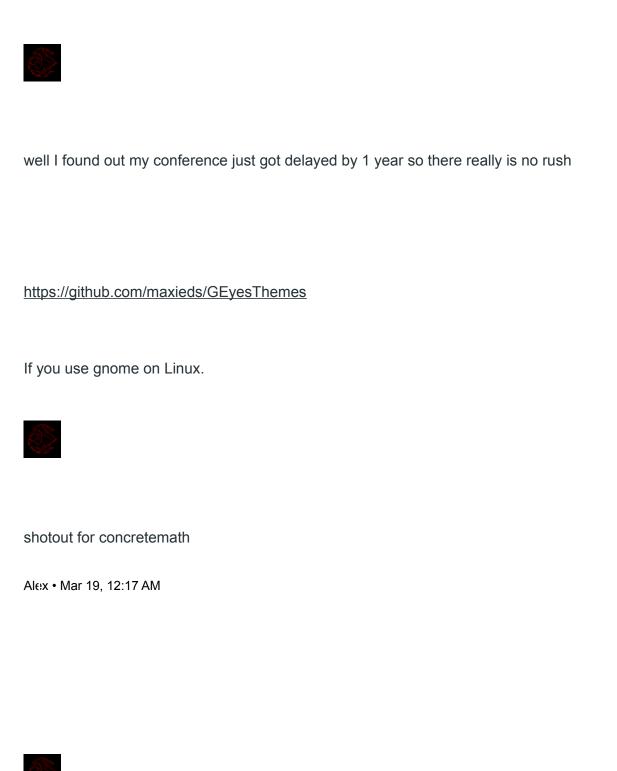
Yup. You too. Mar 16, 6:24 PM hi how are you holding up? I'm good do you know of Andrew Granville? (he was my number theory prof for my undergrad) he loves my art piece and it warms my heart

how is your work going? Alex • Mar 17, 1:19 PM





| I think the figure I showed you could make a nice pendant |
|--|
| and I have plenty of other ideas floating around in my head and laptop Alex • Mar 18, 11:17 PM |
| |
| I emailed you one shape |
| Nice. |
| |
| thank you |
| do you like visual art? or |
| I like playing with the GIMP. |
| Do you really need that sage code this morning? |



This is what I surmise works ... Please don't share it. I think the formulas are special.

$$\frac{|M(x)|}{\sqrt{x}} \gg \left| o(1) + \int_{\frac{\log\log\log\log x}{2}}^{\frac{\log\log\log\log x}{2}} \frac{1}{2} \frac{2\widetilde{A}_0\sqrt{x}}{(m+1)} (2t+1)^{\frac{3}{2}(2t+1)} e^{(2t+1)(m+1)} dt \right|.$$
 A corresponding upper bound is possible to formulate, but more difficult to express exactly. It is given by

$$\frac{|M(x)|}{\sqrt{x}} \ll \sum_{m \geq 0} \left[\left(\frac{11}{3}\right)^m \frac{14\widetilde{A}_1 \sqrt{x}}{(14m-3)m!} \right] \left(O(1) + \int_{\frac{\log\log\log\log x}{2} + \frac{1}{2}}^{\frac{\log\log\log x}{2} + \frac{1}{2}} e^{(2t+1)(2m-10/7)} (2t+1)^{\frac{5}{2}(2t+1)} dt \right).$$

Mar 19, 9:51 PM



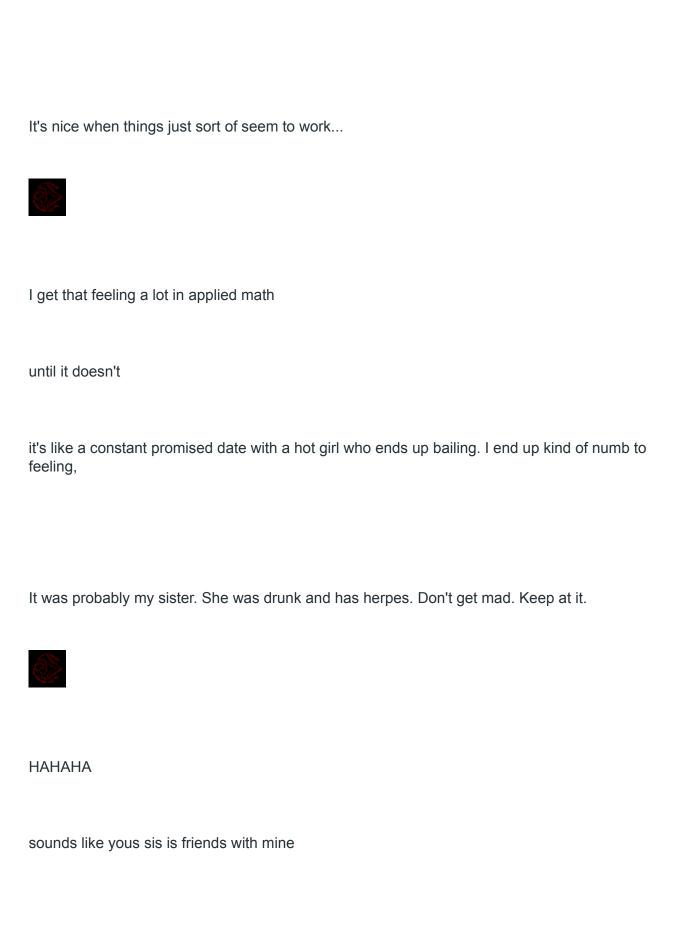
hi

what is this?

BTW I never share anything you write me without your explicit permission

Mertens function.







It's not holy. Just well worn out. This is something else I have been writing on Android this week. Since my comp was cancelled, I found time to use the free Chameleon hardware lab401 sent me. It's coming along.

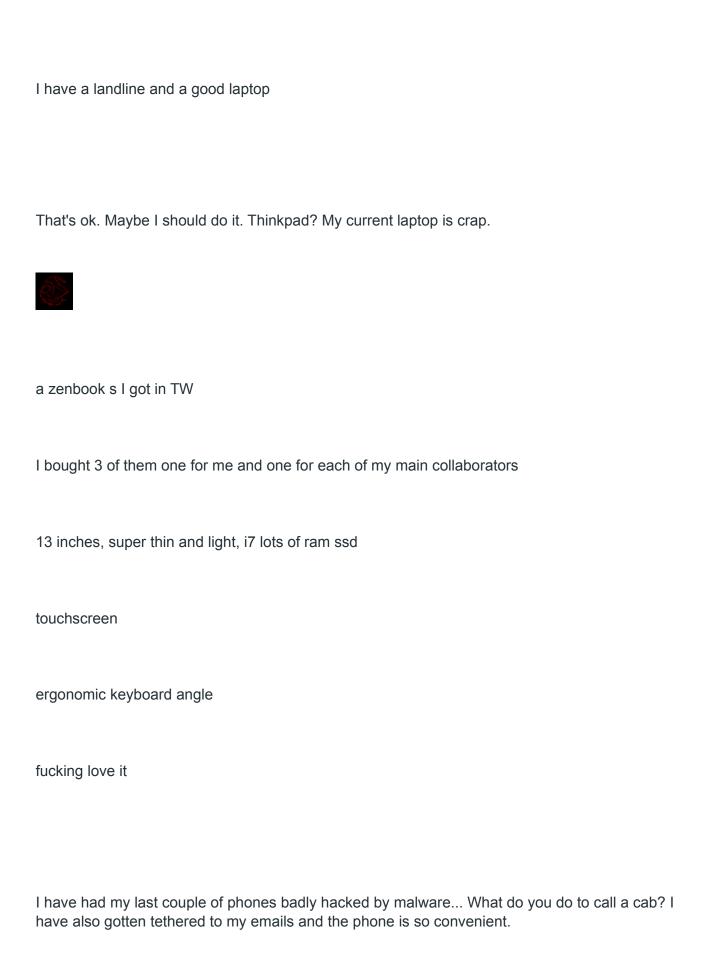


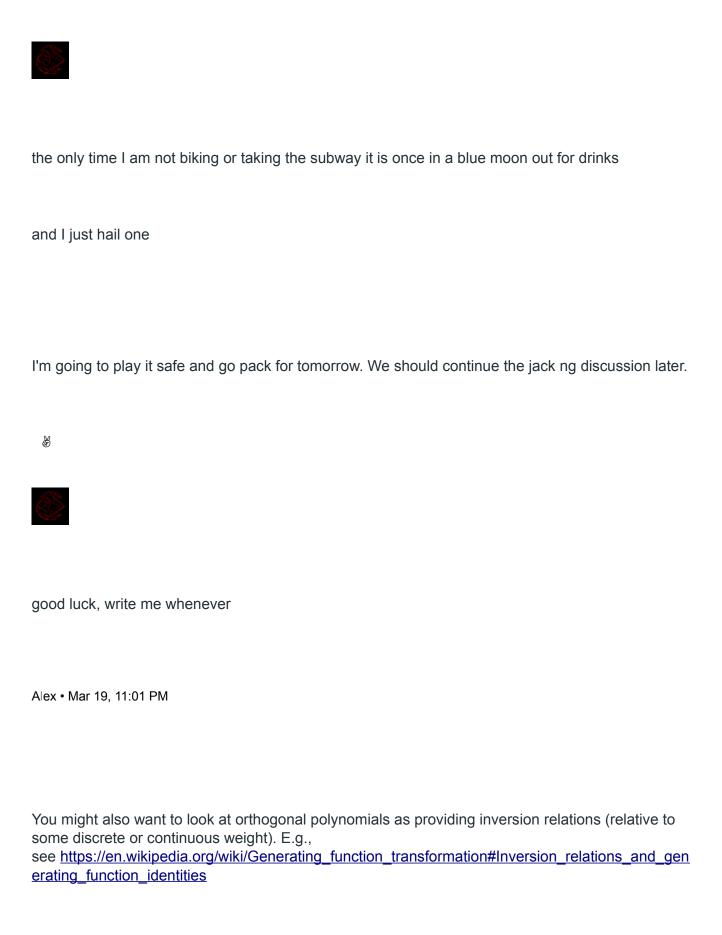
NFC penetrating device.













| Also the latest release of my Chameleon app is out |
|---|
| Not a bad spring break. |
| https://play.google.com/store/apps/details?id=com.maxieds.chameleonminilivedebugger Mar 24, 3:28 AM |
| |
| congrats on the release |
| I just got some contract applied math work! |
| |
| Great! |
| |
| astrometrics is the holy grail of motion control work |

Alex • Mar 24, 3:05 PM

| Do you like the Smashing Pumpkins? I'm going to see the for concert number 7 in a row with my mom in October. Tradition that started in 1996. Mar 25, 12:03 PM |
|---|
| |
| never listened to them |
| wanna suggest a song or songs for me? |
| Do you have Spotify? |
| nope |
| Let me put together a you tube list of my favorites. It's going to take an hour or two. I'm online grocery shopping right now. |
| 1979 is my mom's favorite. I love the drums on "I am one". Cherub rock and today are good. |
| |

| it's pseudo martial law here |
|---|
| fucking sucks being sort of locked up |
| |
| Yeah. The Atlanta mayor put people on lock down except for groceries, prescription, and only essential travel. |
| This virus is going to be nasty until there's a vaccine. Mar 25, 1:27 PM |
| My playlist (sorted by most popular): https://www.youtube.com/playlist?list=PLPV7hiOR4qwyuPu8s-EV5a_CO8K6TG7fD |
| Other pumpkins "greatest hits" playlists: |
| |
| i will check it out ♥ |

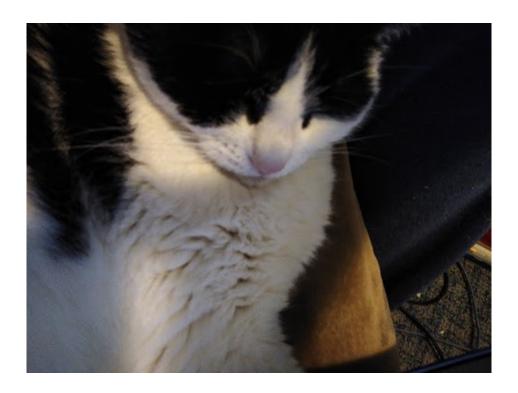


| I'm studying for my exam after this, which is next Friday online. |
|---|
| |
| the probability one? |
| |
| My favorite pal is keeping me company in social isolation. |
| |
| who is that? |
| |
| I sent a picture |
| Still uploading. |
| |
| |
| |

oh a pet
I am guessing

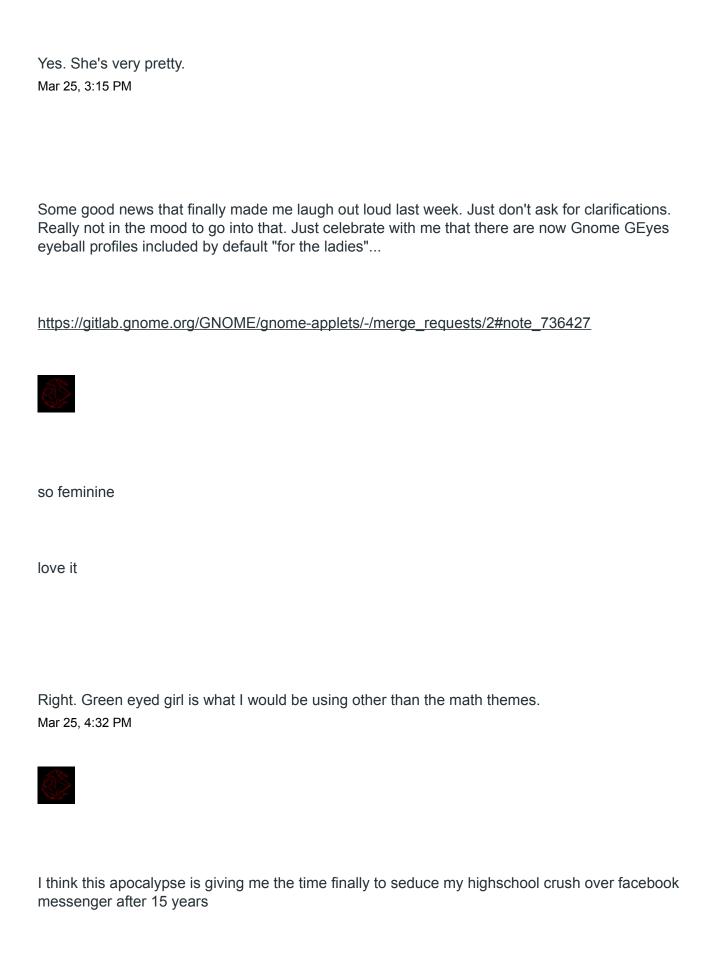
(conjecture

It's Kush, my cow-spotted feline





beautiful!



| hat and read numerical analysis algorithms Alex • Mar 25, 9:16 PM |
|---|
| Do you know of any good practical problems with the CLT? Mar 26, 6:38 AM |
| |
| central limit theorem? |
| 've never done any practical probability Alex • Mar 26, 1:22 PM |
| Can I share a secret that you cannot tell anyone until at least August? Mar 26, 1:54 PM |
| Can you send me a picture of your high school I'd, or old college / grad school buzzcard? Nothing ike a driver's license. Just curious what you actually look like. |
| Good luck with the ladies. Mar 26, 2:24 PM |

People in rural Florida near Alabama need toilet tissue!



https://youtu.be/m0-OYwzGEOo



share the secret



Ok. I made progress on Mertens. I believe, but nothing's a sure bet with these things, that I can prove a tighter *lower bound* than can currently be done with upper bounds at the moment. I'm supposed to be focusing only on comp prep. But I did that, and couldn't resist temptation to keep working on what I'm really here to do. SSH don't tell anyone.

My adviser told me to drop everything for the next week.



good luck

I'll meditate for you

number theory is the holy grail of math





| a mathematician would have a list of exotic articles followed by cat pictures and weird side interests |
|--|
| No. It's the math server software. It's from last fall. So recent enough. |
| I'm teasing you |
| I love my pets. My first cat was a guardian angel |
| |
| beautiful |
| My parents have 10 cats. Dad used to work at a pet good company. We're pet people. |
| |

| you are become cat |
|--|
| Cameo passed the summer before I came to GA Tech. Kush is the second one. Love her as much. She's just more attitudinal and insistent sometimes. |
| yeah you can never replace the personality |
| wanna see a poem I wrote while studying this new family of curves the spherical clothoid? |
| idk i showed you already |
| Sure. |
| |
| |

Title: The empty set exists

To see her would be like touching death
It's axiomatic, the foundation of any metric
You love her because she's her

Double entendre across the stanza But her hair, only spirals

My love for her, pure vector Imaginary, hypercomplex Unmixed evil, I bow to Lord Kelvin Maxwell's demon, my hamiltonian angel

LeMaitre rolls the globe
I scour it all
The absolute framed in the abstract
Her touch electric, she skirts the real
The thought of her chases me
She's the fairest of them all

I pray for her to the lord of all men Cosmic logic made flesh, restorer of balance I praise the giants who lifted me up Euler, Thales, Anaximander

Alex • Mar 26, 4:28 PM

Euler but not Newton?

The (one of) God father of calculus?

The Smashing Pumpkins - Lily (My one and only)



https://youtu.be/3RjBIBr5MB0



Euler is more super natural to me than Newton

and I can't list them all, 3 is the many

Most mathematicians like Gauss. Riemann will be famous for a while. Euclid, first proof of infinititude of primes. And then there's Ramanujan, true genious.

Have you seen his notation for analytic continuation for the zeta function? Utterly confuses math minors and pisses off old stodgy bastards alike. Couldn't get better.

https://writings.stephenwolfram.com/2016/04/who-was-ramanujan/

$$\frac{1}{1^3 + 2^3 + 3^2 + 46} = -\frac{1}{120}.$$



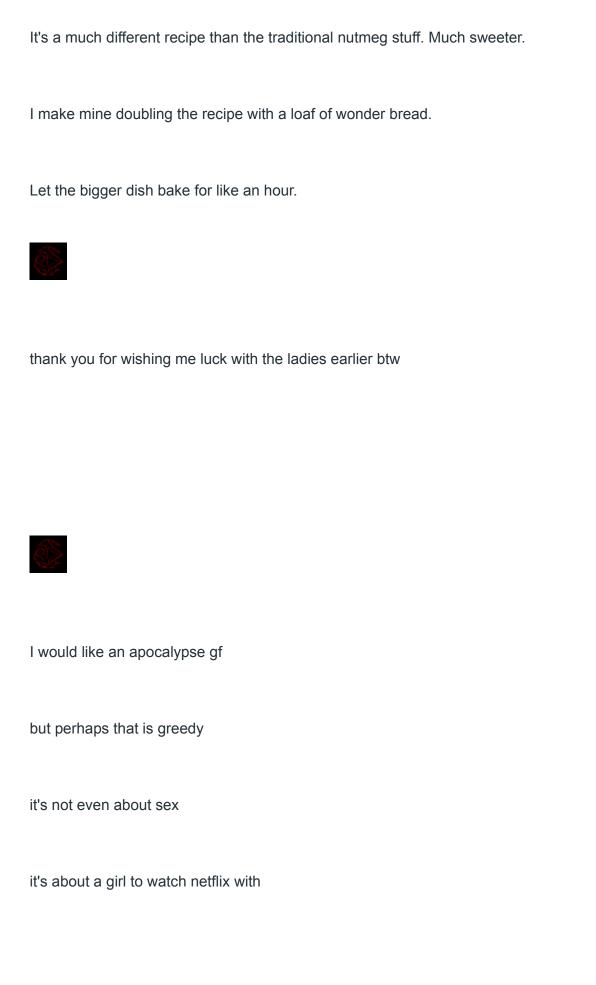
Very productive aliens. What about more recently Erdos?

erdos was more like a high level math monk

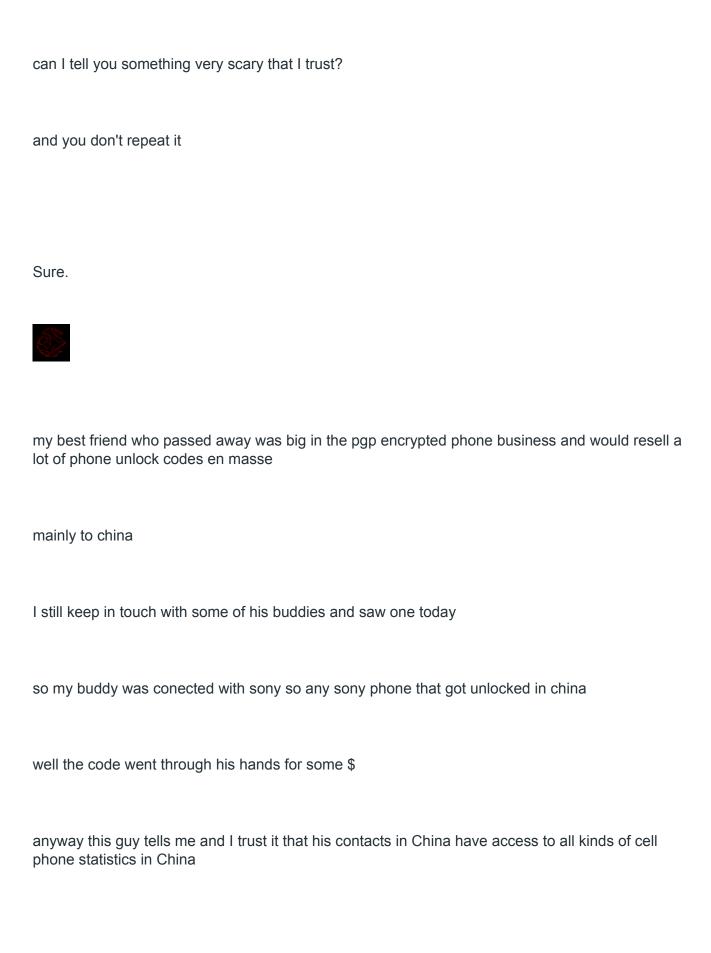
I will tell you why this is distinct.

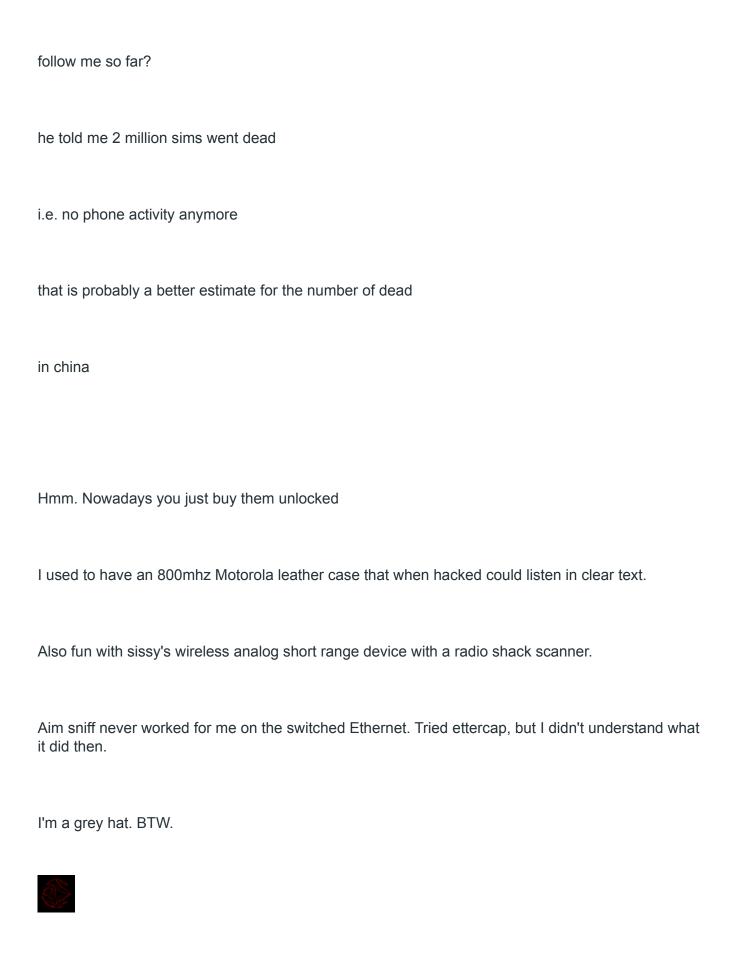
but write me your thoughts first

| Also liked his Ritalin I understand. |
|--|
| |
| dexedrine too |
| Euler and Ramanujan came up with brilliance alone more or less but Erdos was a fanatical collaborator math vagabond |
| While you are staying at home with crusty bread when no one will deliver, try this https://ww4.publix.com/recipes-planning/aprons-recipes/strawberry-white-chocolate-bread-pudding |
| I make mine with a hybrid of raspberry and blackberry. |
| |
| nice |
| the plants i have here morphed into a hybrid like that too |



| and laugh at the hysteria on the news |
|---|
| or perhaps cry |
| |
| Let me think about what sequence I would choose. Mobius is too regular. Maybe lookup the Mertens function on oeis, look at the crazy staircase plirs on math world. I can give you a non traditional GF for it. |
| Wod be totally appropriate too, seeing as that's what I've been doing recently |
| Plots . |
| My new phone doesn't know me yet. Auto <u>complete.is</u> screwy. |
| I don't know the theory. But summation of the Mobius function is supposed to be pseudonym random in structure. |
| What is the virus like exponential growth game where you watch it expand. Game if life? |
| Pseudo random that is |
| |



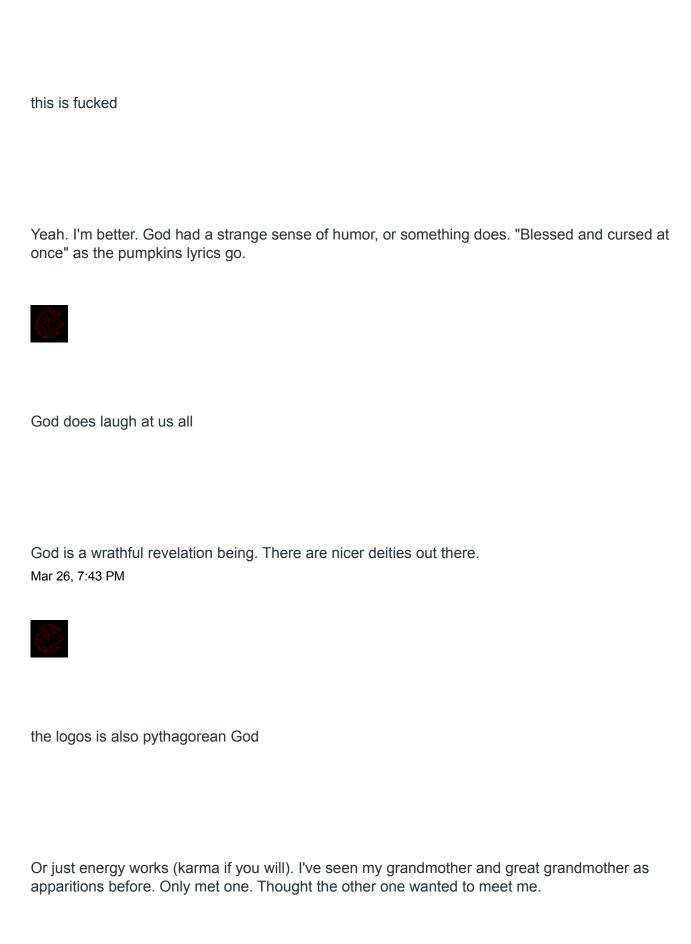




| software that no longer is linked on Google. When I started doing Chameleon development on my phone I figured it out |
|--|
| Want to see most of the root kit? |
| Let me vent and just tell you some context |
| https://github.com/maxieds/MyProtestToTheIllinoisDMCATakedownActOf2017/tree/master/bug-tracking/mspy-chaos-droid |
| I got drunk in a safe fenced in space on the cattio with family and a gun around. Decent tequila, and then around 10-11 pm a good bottle of champagne. I created this playlist while ruminating |
| Here's a playlist for you Lucky225 is still an asshole by maxieds https://open.spotify.com/playlist/7BZc0lcgVyAlMcpl0X7xZ6?si=8WBOW0e_T_2JN3SgaGeWHw |
| This guy doesn't know when you stop, or what "back off" means in any form. My phone subsequently gets hacked to the point I can detect it, with detailed core dumps from the droud. So I get pissed, add more punk rock than as alterna girl rock, this gets worse |
| Around midnight I finally decided to post all that source code I have been caching. |
| I actually filed a police report in 2018 about the phone getting hacked. They couldn't help me, even in metro Atlanta. |
| Let me post a link to bt.apk, which I intentionally bought, but never installed, to reverse engineer it with adb like tools. Incognito, which I pay the professional license fee for called it mspy. |

| https://drive.google.com/open?id=11oQLTAVV0MH8ZBc2bJdP2IIMbU70MyPI |
|---|
| That's my piece for now. |
| All I did to him was get into a decent engineering CS program as an undergrad. Message not delivered. |
| |
| what is ruminating? |
| |
| Thinking about all of the circumstances and events that I have been through |
| Getting drunk and thinking |
| In general |
| |
| very ancient greek |

| Hmm |
|---|
| |
| the tradition is ancient |
| think |
| drink |
| think different |
| beautiful |
| Yes. My inclination is that the root kit was based on mspy. An insanely invasive spyware software suite for abusive parenting and stalkers. There is if look hard for it a repo linked in Google that lists permissions of some of the apks in that file set. It's obviously an underground mod |
| Not bad for a non security person's sensibilities? |



| Strange sense experiences |
|---|
| |
| ancient greek language is inherently mystical |
| translations do not do it justice |
| another translation for logos |
| divine essence |
| |
| We also had a "garden fairy" living in MO. My mom sent it to me without me knowing it. I saw a glowing dragon / butterfly on my dorm wall. Then she later told me she had done it. My family is haunted. You can be skeptical until you've experienced it. Then you understand. |
| |

oh i have experienced my fair share of very spooky shit Alex • Mar 26, 8:31 PM



good luck

I don't wanna distract you

Thank you. That I do not need it. Mar 30, 1:22 AM



I leave you with Catullus 85

| Odi et amo. Quare id faciam fortasse requīris. Nescio, sed fierī sentio et excrucior. |
|--|
| Translation for the math enabled, latinate illiterates? |
| odi et amo |
| I love and I hate |
| quare id faciam |
| why do I do this |
| fortasse requiris |
| perhaps you ask |
| nescio |
| i dont know |

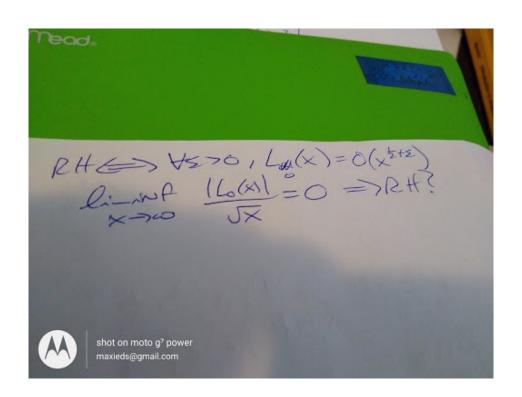
sed fieri sentio et excrucior

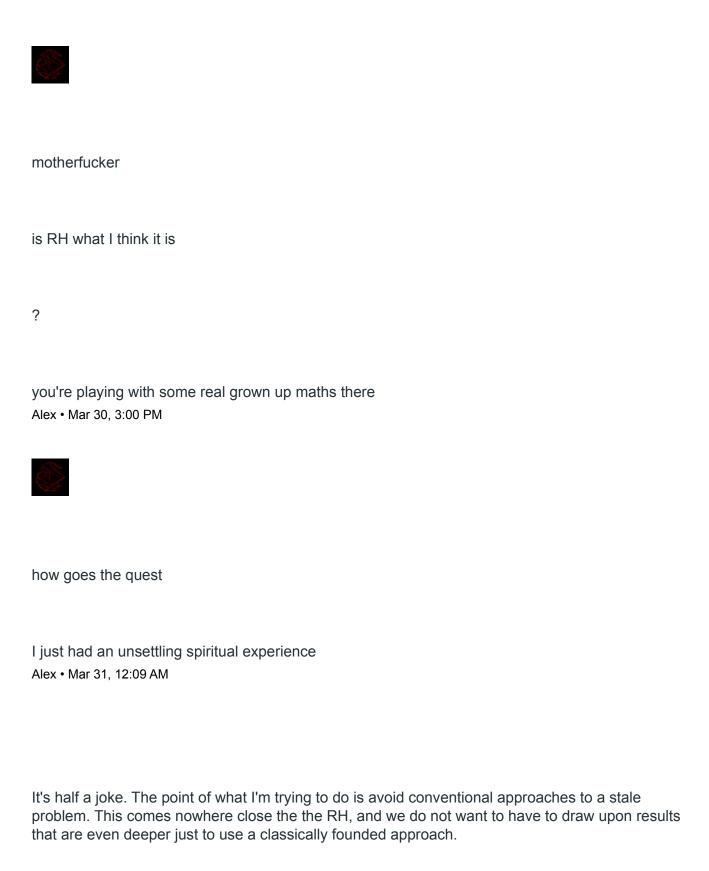
but i feel it happening and am tortured Alex • Mar 30, 1:53 AM

Mar 30, 6:01 AM

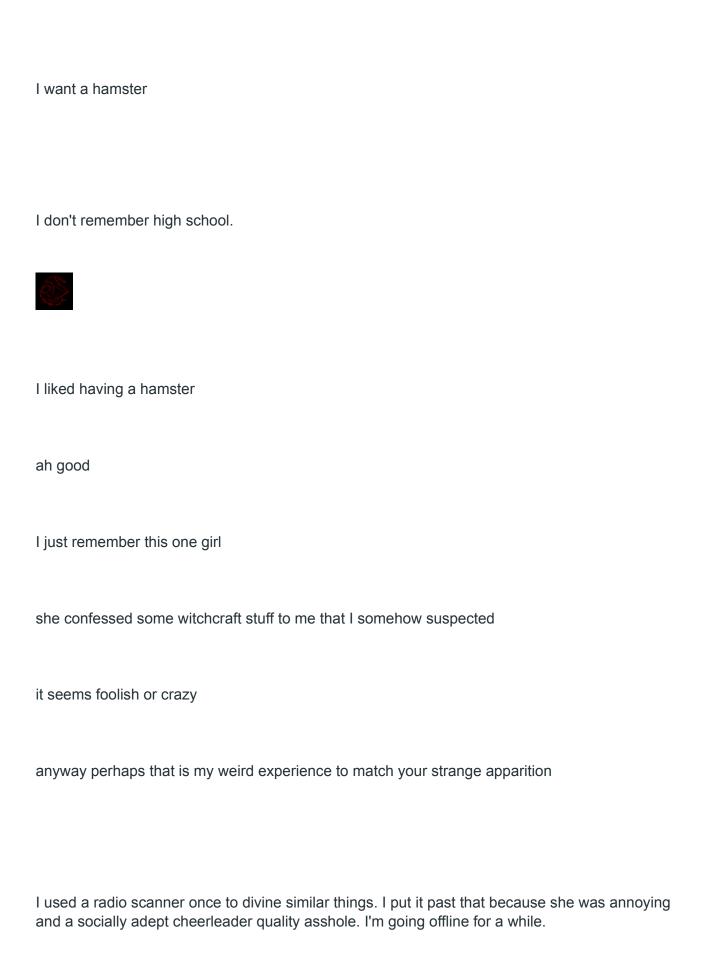


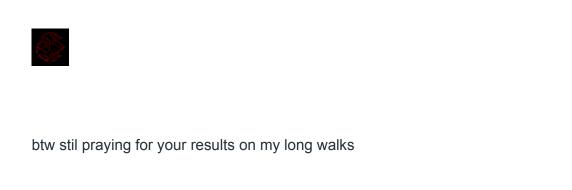
catullus is so OG





| You are clearly delirious on virus and or beer. I am going without this week. |
|---|
| |
| no virus or beer I swear |
| all sober |
| a lot of contemplation alone though |
| remember when you told me you had spooky experiences? |
| and I believe you btw |
| no hallucinations or anything |
| I've been talking to a girl from highschool |
| You should consider adopting a stray to keep you company. |
| |





hope you are feeling it ◆ Alex • Mar 31, 12:59 AM

My results are correct. It's all about tightness. It just proves a path, not necessarily an optimal one. Still not bad. Would you like to write some software for me?

In sage. It would save me time converting my convenience Mathematica work into reusable python...

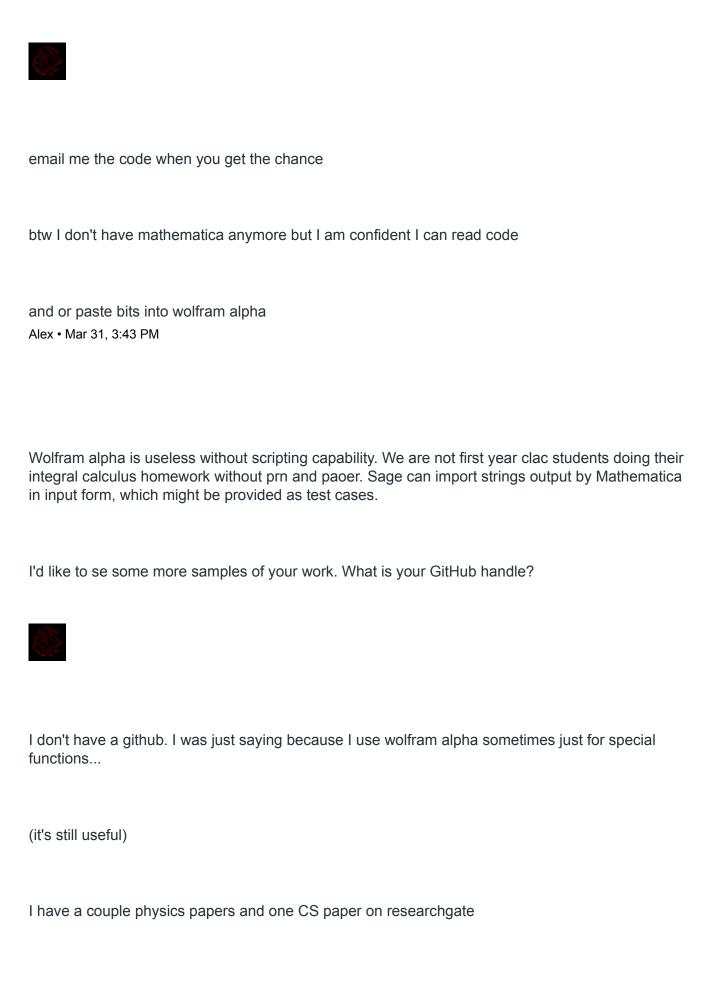
Mar 31, 2:25 AM



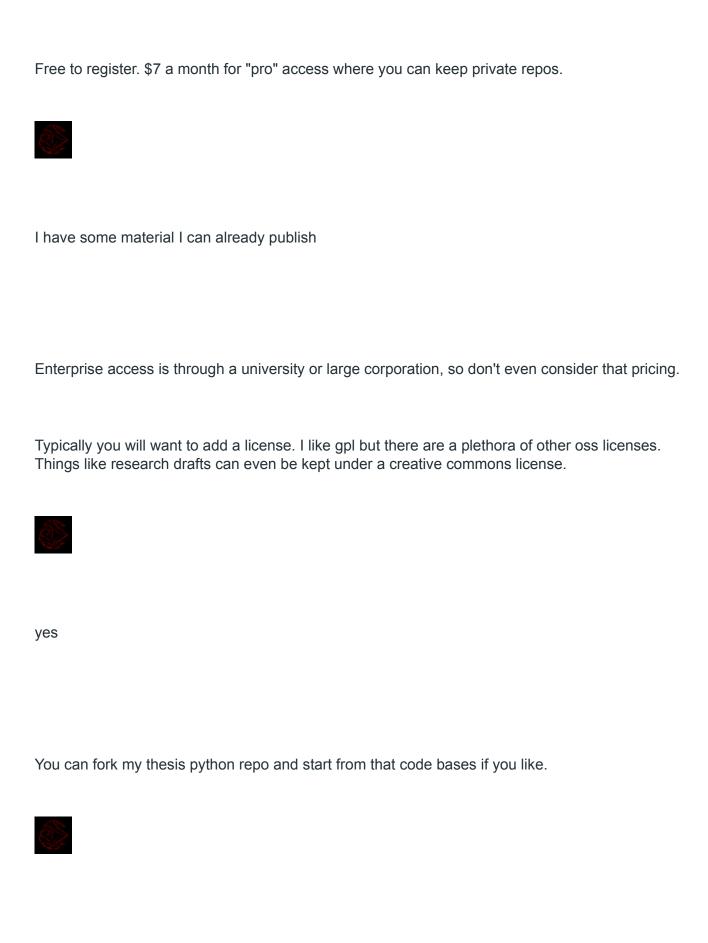
send me your work and I'll take a look

but I don't want to promise a result since I am not a sage expert

but I am willing to invest my time Alex • Mar 31, 3:15 PM







| thank you for the sugestion |
|---|
| the only stuff that comes to mind very quickly that I can put on github is implementations of these new spline primitive cuves I am studying using mpmath tools |
| I will write specs for a sage math add-on that I would find useful. If you are really creative and run with it, to the add-on may eventually be worth submitting to the official sage code for packages. If that's an end goal of yours, go ahead and lookup / pay close attention to their coding style requirements and specs before you start. That will save a lot of work down the road. |
| idk if you ever used that numeric library in sagemath |
| just read your last message |
| yes that is true and deep what you said |
| I should study their coding style |
| I'll be honest with you |
| I just had a plan all made-up for 2 conferences this summer |



so IMHO it is still very useful for mathematical physics Alex \bullet Apr 1, 3:20 PM



when is your probability exam?

did it pass already? (I forget) Alex • Apr 1, 7:01 PM

Friday.



you'll do good Alex • Apr 1, 7:25 PM



btw I have mathematica now

so I can checkout translation from mathematica to sage

I got the flu. It's going to take me weeks to get back around to this. Apr 5, $6:24\ PM$



ok be good ♥
Alex • Apr 5, 9:21 PM



hi!

my collaborator Khalid in Morocco made a breakthrough! Alex • Apr 6, 3:40 PM



I have a reduction formula for one of the 3 generating functions...

(assuming his result is valid)

| I really won't have time to look at this for a while. |
|---|
| |
| it's all good |
| always 0 pressure for me, I just wanted to tell you some news |
| you feel me? |
| how are you feeling btw? more sick, less sick? |
| |
| Better today. Apr 6, 4:39 PM |
| |
| hi |

quick question if you are feeling ok

| (feel free to ignore me or tell me to fuck off), how do you prefer to code definite integrals in sage math^ |
|---|
| ? |
| I'm gonna play around with definite_integral Alex • Apr 8, 9:37 PM |
| |
| hey another random question, do you have TEX in gmail? |
| I love it |
| I don't use sage that often |
| Total doc sage that offeri |
| it is so satisfying and fast to write an expression in sage, output latex automatically and copy paste it into gmail and send an email Alex • Apr 9, 3:52 PM |
| |

integral representation of a 2d hypergeometric function

$$\phi_{1}(i\eta+1,i\eta,i\eta+\frac{3}{2};\frac{1}{2},i\alpha s^{2})=\frac{\Gamma\left(i\,\eta+\frac{3}{2}\right)}{\sqrt{\pi}\Gamma\left(i\,\eta+1\right)}\int_{0}^{1}\frac{t^{i\eta}e^{\left(\frac{1}{2}i\,\alpha s^{2}t\right)}}{\sqrt{-t+1}\left(-\frac{1}{2}\,t+1\right)^{i\eta}}dt$$

rendered with the gmail plugin

it's pretty Alex • Apr 9, 4:21 PM



hey

how are you feeling?

Better. Fever free for over a week. I consider myself lucky to have had a mild flu.

| so happy to hear that |
|---|
| You? |
| |
| spiritually taxing times |
| |
| I gave a friend who was going over for groceries a face mask yesterday. Just happened to see him in the street. |
| It's strangely dangerous just to act normal |
| |
| indeed |
| |

| https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html |
|---|
| Familiarize yourself with this. |
| |
| ok |
| I was stupid silly disoriented, and the nurse's at GA tech missed it. |
| It was after the fact that I realized how sick I was |
| Most people won't need an er trip, but it's good to be educated |
| I'm scared for my elderly parents catching this. I can deal with flu, but they are really at rusk |
| |
| yes |
| i understand |

| Be careful going out without a surgical mask. Very contagious. You will probably be fine at your age but not fun for a week. |
|--|
| Order groceries online. |
| https://play.google.com/store/apps/details?id=com.instacart.client |
| Walmart bselks masks |
| |
| I'm all set for masks |
| Just be careful. It's contagious and going to be bad. |
| thank you for the concern |

Alex • Apr 12, 11:14 PM

| I just should convey that if all you end up with in a pandemic like this is a "mild flu" you are a lucky sob. I have heard warnings bthat six months from now in the ER there will be triage decisions about who gets a ventilator and who gets morphine and their lungs fill up with fluid. Trump shut down a task force months ago that could have saved this being a pandemic, but now lives are at stake |
|--|
| I don't like this, but be very careful as the months proceed |
| |
| how do you think the triage will work? |
| money? |
| |
| I have no idea |
| That's the apocalypse scenario that I have been warned abiut |
| The point is we are at a dangerous tipping point and you need to be very careful with your health |
| Vote Elizabeth Warren |

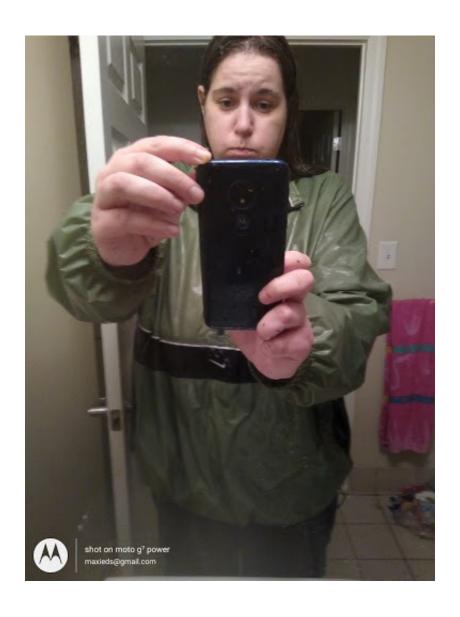


| you heard conway died? |
|--|
| |
| No |
| |
| yeah |
| from covid Alex • Apr 12, 11:45 PM |
| Wow! |
| Personally, it took me a month's worth of Klonopin to get through 8 days of "mild flu", aka Hell. God bless my shrink for letting me refill early under the circumstances. |
| |

your folks are handling things well?

Yeah. My sister thinks she's had covid

My parents are stubborn Apr 13, 12:02 AM

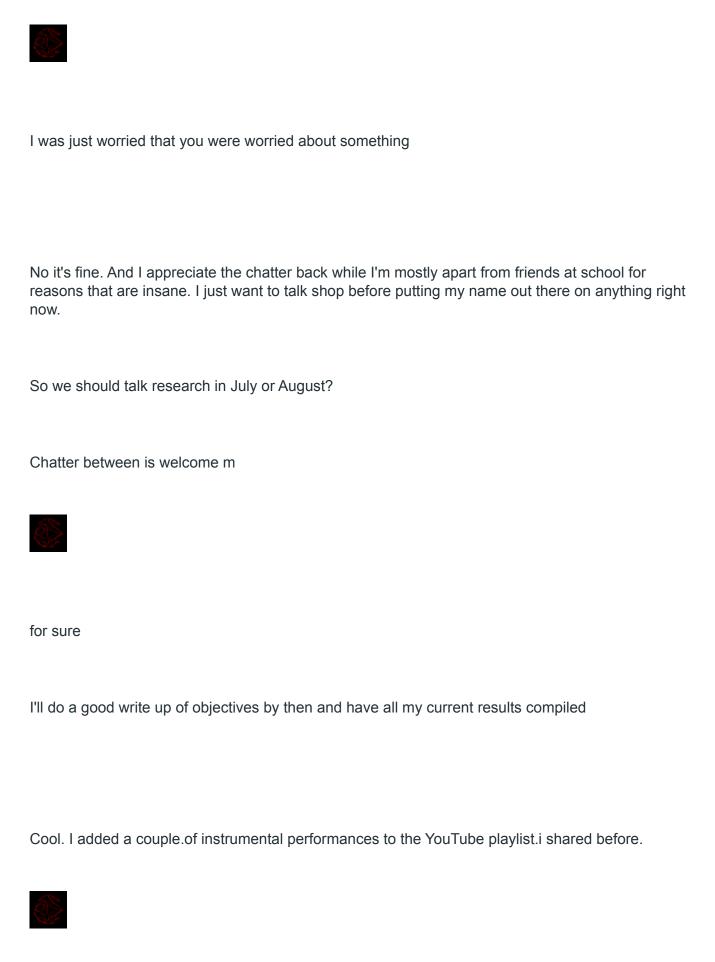


| Can I tell you something else secret? It's pouring down rain here |
|--|
| Very drenched Apr 13, 1:53 AM |
| |
| damn Alex • Apr 13, 4:08 AM |
| |
| I'd actually like to meet you before we collaborate on anything. This has been suggested to me. If the covid issue goes down, are you going to be in Atlanta in the late summer? |
| |
| i could come |
| assuming this end times vibe ends |
| " This has been suggested to me" |
| do you have some apprehension? |
| |



| The issue I'm seeing is that I have shared some personal information with you over a beer or two with my cat. I just want to meet you before signing on for a conference. |
|---|
| After that I'd be happy to do some spot work for your group as you need a mathematician to help. |
| |
| the conference is delayed a year now for sure |
| We could even chat online this summer over video |
| |
| so we have a fair bit of time to work and decide whatever |
| Yep. |
| |

| for sure we could videochat whenever |
|--|
| possibly it is a good fit with you |
| because it is CS meets EGF's of orthogonal polynomials |
| |
| I hope it's not an insulting request. I just would prefer to have talked with anyone I'm going to collaborate with on a paper or conference. |
| I really don't have time to do this for a while anyway. |
| This summer for sure |
| |
| I'm not insulted at all |
| |



I'll check it out in a bit

I'm listening to german techno now

are you into numerical analysis too

?

more algorithmic stuff?

for later
Alex • Apr 14, 7:22 PM

I keep thinking about how I'd like to see my former baseball team win again.



To be <u>honest.my</u> intellectual focus is an exam right now.

| what exam? |
|---|
| prob went ok? |
| |
| Didn't take it yet. I was too sick. |
| Scheduled for later Apr 14, 8:23 PM |
| I "reached out" to a professor friend of mine at UBC. I think she has always been secretly interested in this type of theoretical physics. When you get back to me this summer with your manuscript, maybe we should make her a collaborator too for you. She might want to give us a 78 on her 80 point scale too. |
| |
| awesome |
| btw I think monday I'll finish the euler type integral rep of the spherical clothoid |

a lot of sagemath hax and sympy in sagemath too

fuck I love sympy

and I am sucked for aesthetic curves



*sucker Alex • 12:34 AM

I like the Grapes of Wrath. I have a particular "grip and twist" method in mind that is much less about dexterity and much more about will power. I hope you know what I mean.



Do you ever read 2600? I propose a collaboration. You said you can hack.

What is your alias? One never puts thier real name on that. 1:45 AM

Subtext: What is it exactly you want, Jason? 2:24 AM

He speaks to us in his native toungue, and what does he say? "Suck my dick".

Good night. 2:46 AM



I have a pile of dead trolls on my desk!



8:34 AM



nice trolls Alex • 1:48 PM