# Do Judgments Screen Evidence?

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## 1 Screening

Suppose a rational agent S has some evidence E that bears on p, and on that basis makes a judgment about p. For simplicity, we'll normally assume that she judges that p, though we're also interested in cases where the agent makes other judgments, such as that p is probable, or that p is well-supported by the evidence. We'll also assume, again for simplicity, that the agent knows that E is the basis for her judgment. Finally, we'll assume that the judgment is a rational one to make, though we won't assume the agent knows this. Indeed, whether the agent can always know that she's making a rational judgment when in fact she is will be of central importance in some of the debates that follow.

Call the proposition that the agent has made this judgment *J*. The agent is, we'll assume, aware that *J* is true. She's also aware that she's rational. The fact that a rational person judges *p* seems to support *p*. So it might look like *J* is a new piece of evidence for her, one that tells in favour of *p*. Here then is an informal version of the question I'll discuss in this paper: *How many pieces of evidence does the agent have that bear on p*? Three options present themselves.

- I. Two Both J and E.
- 2. One E subsumes whatever evidential force J has.
- 3. One *I* subsumes whatever evidential force *E* has.

This paper is about option 3. I'll call this option JSE, short for *Judgments Screen Evidence*. I'm first going to say what I mean by screening here, and then say why JSE is interesting. Ultimately I want to defend three claims about JSE.

- 1. JSE is sufficient, given some plausible background assumptions, to derive a number of claims that have become prominent in recent epistemology (meaning approximately 2004 to the present day).
- 2. JSE is necessary to motivate at least some of these claims.

<sup>\*</sup>References not even started, let alone complete, though there are hyperlinks to some of the papers I discuss. Draft only. Thanks to John Collins, Shamik Dasgupta, Adam Elga, Tom Kelly, Ishani Maitra, Ted Sider and audiences at Arché for comments on earlier drafts of this paper and of its constituent parts.

3. JSE is false.

This section will largely be about saying what JSE is, and then defending 1 and 2. Then in sections 2 and 3, I'll develop two distinct objections to JSE.

#### 1.1 Screening

The idea of screening I'm using here comes from Reichenbach's *The Direction of Time*, and in particular from his work on deriving a principle that lets us infer events have a common cause. The notion was originally introduced in probabilistic terms. We say that *C* screens off the positive correlation between *B* and *A* if the following two conditions are met.

- 1. A and B are positively correlated probabilistically, i.e. Pr(A|B) > Pr(A).
- 2. Given C, A and B are probabilistically independent, i.e.  $Pr(A|B \land C) = Pr(A|C)$ .

I'm interested in an evidential version of screening. If we have a probabilistic analysis of evidential support, the version of screening I'm going to offer here is identical to the Reichenbachian version just provided. But I want to stay neutral on whether we should think of evidence probabilistically. In general I'm somewhat sceptical of probabilistic treatments of evidence for reasons Jim Pryor goes through in his Uncertainty and Undermining. I mention some of these in my The Bayesian and the Dogmatist. But I won't lean on those points in this paper.

When I say that *C* screens off the evidential support that *B* provides to *A*, I mean the following. (Both these clauses, as well as the statement that *C* screens off *B* from *A*, are made relative to an evidential background. I'll leave that as tacit in what follows.)

- 1. *B* is evidence that *A*.
- 2.  $B \wedge C$  is no better evidence that A than C is, and  $\neg B \wedge C$  is no worse evidence for A than C is.

Here is one stylised example, and one real-world example.

Detective Det is trying to figure out whether suspect Sus committed a certain crime. Let A be that Sus is guilty, B be that Sus's fingerprints were found at the crime scene, and C be that Sus was at the crime scene when the crime was committed. Then both clauses are satisfied. B is evidence for A; that's why we dust for fingerprints. But given the further evidence C, then B is neither here nor there with respect to A. We're only interested in finding fingerprints because they are evidence that Sus was there. If we know Sus was there, then the fingerprint evidence isn't useful one way or the other. So both clauses of the definition of screening are satisfied.

The real world example is fairly interesting. Imagine that we know Vot is an American voter in last year's US Presidential election, and we know Vot is either from Alabama or Massachusetts, but don't know which. Let A be that Vot voted for Barack Obama, let B be that Vot is from Massachusetts, and let C be that Vot is pro-choice. Then, somewhat surprisingly, both conditions are met. Since voters in

Massachusetts were much more likely to vote for Obama than voters in Alabama, *B* is good evidence for *A*. But, at least according to the polls linked to the state names above, pro-choice voters in the two states voted for Obama at roughly the same rate. (In both cases, a little under two to one.) So *C* screens off *B* as evidence for *A*, and both clauses are satisfied.

## 1.2 The Idea Behind JSE

When we think about the relation between J and E, there are three conflicting pressures we immediately face. First it seems J could be evidence for p. To see this, note that if someone else comes to know that S has judged that p, and they know that S is as rational as them, and as well informed as them, then that could be a good reason for them to believe that p. Or, at the very least, it could be evidence for them to take p to be a little more likely than they previously thought. Second, it seems like 'double counting' for S to take both E and J to be evidence. After all, she only formed judgment J because of E. Yet third, it seems wrong for S to simply ignore E, since by stipulation, she has E, and it is in general wrong to ignore evidence that one has.

The simplest argument for JSE is that it lets us accommodate all three of these ideas. S can treat J just like everyone else does, i.e. as some evidence for p without either double counting or ignoring E. She can do that because she can take E to be screened off by J. That's a rather nice feature of JSE.

To be sure, it is a feature that JSE shares with a view we might call ESJ, or evidence screens judgments. That view says that S shouldn't take J to be extra evidence for p, for while it is indeed some evidence for p, its evidential force is screened off by E. This view also allows for S to acknowledge that J has the same evidential force for her as it has for others, while also avoiding double counting. So we need some reason to prefer JSE to ESJ.

One reason (and I don't think this is what anyone would suggest is the strongest reason) is from an analogy with the fingerprint example. In that case we look for one kind of evidence, fingerprints, because it is evidence for something that is very good evidence of guilt, namely presence at the crime scene. But the thing that we are collecting fingerprint evidence for screens off the fingerprint evidence. Similarly, we might hold that we collect evidence like E because it leads to judgments like I. So the later claim, I should screen E, if this analogy holds up.

### 1.3 ISE and Disagreement

My main concern in this section isn't with any particular argument for JSE, but with the role that JSE might play in defending contemporary epistemological theories. I'm going to argue later that JSE is false, but first I'll argue that it is significant. I'll discuss several different ways in which JSE is implicated in contemporary work. The various theses JSE supports might not have seemed to have a lot in common, though it is notable that they have a number of proponents in common. So one of the things I'll argue is that JSE unifies some potentially disparate strands in contemporary epistemology. The primary case in which I'll be interested in concerns disagreement. Here is Adam Elga's version of the **Equal Weight View** of peer disagreement, from his Reflection and Disagreement.

Upon finding out that an advisor disagrees, your probability that you are right should equal your prior conditional probability that you would be right. Prior to what? Prior to your thinking through the disputed issue, and finding out what the advisor thinks of it. Conditional on what? On whatever you have learned about the circumstances of the disagreement.

It is easy to see how JSE could lead to some kind of equal weight view. If your evidence that p is summed up in your judgment that p, and another person who you regard as equally likely to be right has judged that  $\neg p$ , then you have exactly the same kind of evidence for p as against it. So you should suspend judgment about whether p is true or not. In section 2 I'll discuss how to turn this informal idea into a full argument.

But for now I want to focus on the role that JSE can play is in the clause about priority. Here is one kind of situation that Elga wants to rule out. S has some evidence E that she takes to be good evidence for P. She thinks T is an epistemic peer. She then learns that T, whose evidence is also E, has concluded  $\neg P$ . She decides, simply on that basis, that T must not be an epistemic peer, because T has got this case wrong. This decision violates the Equal Weight View, because it uses S's probability that T is a peer after thinking through the disputed issue, not prior to this, in forming her judgment about how likely it is that she was right, i.e., how likely it is that P is true.

Now at first it might seem that S isn't doing anything wrong here. If she knows how to apply E properly, and can see that T is misapplying it, then she has good reason to think that T isn't really an epistemic peer after all. She may have thought previously that T was a peer, indeed she may have had good reason to think that. But she now has excellent evidence, gained from thinking through this very case, to think that T is not a peer, and so not worthy of deference.

Since Elga thinks that there is something wrong with this line of reasoning, there must be some way to block it. I think by far the best option for blocking it comes from ruling that E is not available evidence for S once she is using I as a judgment. That is, the best block available seems to me to come from JSE. For once we have JSE in place, we can say very simply what is wrong with S here. She is like the detective who says that we have lots of evidence that Sus is guilty-not only was she at the crime scene, but her fingerprints were there. To make the case more analogous, we might imagine that there are detectives with competing theories about who is guilty in this case. If we don't know who was at the crime scene, then fingerprint evidence may favour one detective's theory over the other. If we do know that both suspects were known to be at the crime scene, then fingerprint evidence isn't much help to either.

So I think that if JSE is true, we have an argument for Elga's strong version of the Equal Weight View, one which holds agents are not allowed to use the dispute at issue as evidence for or against the peerhood of another. And if JSE is not true, then there is a kind of reasoning which undermines Elga's Equal Weight View, and which seems, to me at least, unimpeachable. So I think Elga's version of the Equal Weight View requires JSE, and JSE is at least arguably sufficient for Elga's version of the Equal Weight View.

That last claim might look too strong in a couple of respects. On the one hand, we might worry that we could accept JSE and still reject the Equal Weight View because of epistemic partiality. Here's a way to do that. Say we thought that S should given more weight to  $T_i$ 's judgment than  $T_i$ 's judgment if S stands in a special relationship to  $T_1$  and not to  $T_2$ , even if S has no reason independent of the relationship to believe that  $T_1$  is more reliable. And say that S stands in that relationship to herself. Then S's own judgment that p might be better evidence for her that p than a peer's judgment. The view I've just sketched is a schema; it becomes more precise when we fill in what the relationship is. Ralph Wedgwood has proposed a version of this view where the special relationship is *identity*. Sarah Stroud has proposed a version of this view where the special relationship is *friendship*. For what it's worth, I'm a little sceptical of such views, but arguing against them would take us too far away from our main goal. Instead I'll just note that if you do like such views, you should agree with me that ISE is necessary to motivate the Equal Weight View, and disagree that it's sufficient. Put another way, the falsity of such views is a needed extra premise to get that ISE is necessary and sufficient for the Equal Weight View.

For somewhat different reasons, considering the details of JSE might make us worry that JSE is not strong enough to support a full-blooded version of the Equal Weight View. After all, JSE was restricted to the case where the agent's judgment is rational. So all it could support is a version of the Equal Weight View restricted to agents who initially make a rational judgment. But I think this isn't actually a problem, since we need to put some kind of restriction on Equal Weight in any case. We need to put such a restriction on because the alternative is to allow a kind of epistemic laundering.

Consider an agent who makes an irrational judgment. And assume her friend, who she knows to be a peer, makes the same irrational judgment. What does the Equal Weight View say she should do? It should be bad for it to say that she should regard her and her friend as equally likely to be right, so she should keep this judgment. After all, it was irrational! There are a couple of moves the friend of the Equal Weight View can make at this point. But I think the simplest one will be to put some kind of restriction on Equal Weight. If that restriction is to agents who have initially made rational judgments, then it isn't a problem that JSE is restricted in the same way.

#### 1.4 White on Permissiveness

In his 2005 *Philosophical Perspectives* paper, Epistemic Permissiveness, Roger White argues that there cannot be a case where it could be epistemically rational, on evidence E, to believe p, and also rational, on the same evidence, to believe  $\neg p$ . One of the central arguments in that paper is an analogy between two cases.

**Random Belief**: S is given a pill which will lead to her forming a belief about p. There is a 1/2 chance it will lead to the true belief, and a 1/2 chance it will lead to the false belief. S takes the pill, forms the belief, a belief that p as it turns out, and then, on reflecting on how she formed the belief, maintains that belief.

Competing Rationalities: S is told, before she looks at E, that some rational people form the belief that p on the basis of E, and others form the belief that  $\neg p$  on the basis of E. S then looks at E and, on that basis, forms the belief that p.

White claims that S is no better off in the second case than in the former. As he says,

Supposing this is so, is there any advantage, from the point of view of pursuing the truth, in carefully weighing the evidence to draw a conclusion, rather than just taking a belief-inducing pill? Surely I have no better chance of forming a true belief either way.

But it seems to me that there is all the advantage in the world. In the second case, S has evidence that tells on p, and in the former she does not. Indeed, I long found it hard to see how we could even think the cases are any kind of analogy. But I now think JSE holds the key to the argument.

Assume that JSE is true. Then after S evaluates E, she forms a judgment, and J is the proposition that she formed that judgment. Now it might be true that E itself is good evidence for p. (The target of White's critique says that E is also good evidence for  $\neg p$ , but that's not yet relevant.) But given JSE, that fact isn't relevant to S's current state. For her evidence is, in its entirity, J. And she knows that, as a rational agent, she could just as easily have formed some other judgment, in which case J would have been false. Indeed, she could have formed the opposite judgment. So J is no evidence at all, and she is just like the person who forms a random belief, contradicting the assumption that believing p could, in this case, be rational, and that believing p could be rational.

Without JSE, I don't see how White's analogy holds up. There seems to be a world of difference between forming a belief via a pill, and forming a belief on the basis of the evidence, even if you know that other rational agents take the evidence to support a different conclusion. In the former case, you have violated every epistemic rule we know of. In the latter, you have reasons for your belief, you can defend it against challenges, you know how it fits with other views, you know when and why you would give it up, and so on. The analogy seems worse than useless by any of those measures.

#### 1.5 Christensen on Higher-Order Evidence

Next, I'll look at some of the arguments David Christensen brings up in his Higher Order Evidence. Christensen imagines a case in which we are asked to do a simple logic puzzle, and are then told that we have been given a drug which decreases logical acumen in the majority of people who take it. He thinks that we have evidence against the conclusions we have drawn.

Let's consider a particular version of that, modelled on Christensen's example of Ferdinand the bull. S knows that  $\forall x(Fx \to Gx)$ , and knows that  $\neg (Fa \land Ga)$ . S then infers deductively that  $\neg Fa$ . S is then told that she's been given a drug that dramatically impairs abilities to draw deductive conclusions. Christensen's view is

that this testimony is evidence against  $\neg Fa$ , which I assume implies that it is evidence that Fa.

This looks quite surprising. S has evidence which **entails** that  $\neg Fa$ , and her evidence about the drug doesn't rebut that evidence. It does, says Christensen, undermine her evidence for  $\neg Fa$ . But not because it undermines the entailment; it isn't like the evidence gives her reason to believe some non-classical logic where this entailment does not go through is correct. So how could it be an underminer?

Again, JSE seems to provide an answer. If S's evidence that  $\neg Fa$  is ultimately just her judgment that it is entailed by her other evidence, and that judgment is revealed to be unreliable because of her recent medication, then S does lose evidence that  $\neg Fa$ . But if we thought the original evidence, i.e.,  $\forall x(Fx \to Gx)$  and  $\neg (Fa \land Ga)$ , was still available to S, then there is a good reason to say that her evidence conclusively establishes that  $\neg Fa$ .

Note that I'm not saying here that Christensen argues from JSE to his conclusion. Rather, I'm arguing that JSE delivers the conclusion Christensen wants, and without JSE there seems to be a fatal flaw in his argument. So Christensen's view needs JSE as well.

## 2 ISE and Practical Action

As we noted earlier, Christensen's position on higher-order evidence is closely related to JSE. Indeed, some of the examples he uses to motivate his claim about higher-order evidence seem also to provide motivation for JSE. In a number of cases that he offers, evidence about the circumstances in which a judgment is made provide reason, he says, for the judger to lower her confidence in a certain proposition, even if that initial judgment was correct. I'm going to argue that if Christensen is right, we should also expect to find cases where evidence about the circumstances in which the judgment is made provide reason for the judger to *raise* her confidence in a certain proposition, even if once again that initial judgment was correct. And, I'll argue, that's not what investigation of the cases reveals. But first let's look two of at Christensen's examples. (I've slightly changed the numbers in the second case.)

Sleepy Hospital: I'm a medical resident who diagnoses patients and prescribes appropriate treatment. After diagnosing a particular patient's condition and prescribing certain medications, I'm informed by a nurse that I've been awake for 36 hours. I reduce my confidence in my diagnosis and prescription, pending a careful recheck of my thinking.

**Tipping:** My friend and I have been going out to dinner for many years. We always tip 20% and divide the bill equally, and we always do the math in our heads. We're quite accurate, but on those occasions on which we've disagreed in the past, we've been right equally often. This evening seems typical, in that I don't feel unusually tired or alert, and neither my friend nor I have had more wine or coffee than usual. I get \$42 in my mental calculation, and become quite confident of this answer. But then

my friend says she got \$45. I dramatically reduce my confidence that \$42 is the right answer, and dramatically increase my confidence that \$45 is correct, to the point that I have roughly equal confidence in each of the two answers.

Christensen thinks the things the narrator does in each case are, all things considered, the right thing to do. We should note to start with that there's something a little odd about this. This is easiest to see in **Tipping**. Let's say the bill was \$70. Then the narrator's share was  $$70 \div 2$ , i.e. \$35 plus 20% for the tip, so plus \$7, so it is \$42. The narrator is competent with simple arithmetic, so he has access to all of this evidence, and not believing something that is clearly entailed by one's evidence is bad, especially when you are trying to figure out whether it is true and have worked through the computation. But Christensen thinks it is even worse to, immodestly, take one-self to be the one who is correct in a dispute like this. His primary motivation for this, I think, comes from the following variant on Sleepy Hospital.

Or consider the variant where my conclusion concerns the drug dosage for a critical patient, and ask yourself if it would be morally acceptable for me to write the prescription without getting someone else to corroborate my judgment. Insofar as I'm morally obliged to corroborate, it's because the information about my being drugged should lower my confidence in my conclusion. (Christensen, pg 11)

I think the last line here isn't correct. Indeed, I think the last line reveals a crucial premise connecting belief and action that is at the heart of his argument, and which is mistaken. In the example, the medical evidence suggests that the prescription should be, let's say, 100 $\mu$ g, and that's what the narrator at first intends to prescribe. But the narrator also has evidence that he's unreliable at the moment, since he's been awake so long. Christensen thinks that this evidence is evidence against the claim that the prescription should be 100 $\mu$ g, and the narrator should not believe that the prescription should be 100 $\mu$ g. The alternative view, the one I ultimately want to defend, is that the narrator should believe that the prescription should be 100 $\mu$ g, although he shouldn't, perhaps, believe that he should believe that. The second conjunct is because he has good reason to think that his actual judgment is clouded, because he has been awake so long.

Christensen's argument against my position, as I understand it, is that if that were so, then the narrator should make the  $100\mu$ g prescription. But I think that relies on too simplistic an understanding of the relation between norms of belief and norms of action. It might be that given the duty of care a doctor has, he must not only know, but know that he knows, that the drug being prescribed is appropriate before the prescription is made. I think it's crucial here that the Hippocratic Oath puts different requirements on *actions* by doctors than it puts on *omissions*. After all, the oath is *Do* no harm. A natural conclusion to draw from that is that when there is a chance to double-check before acting, the doctor should act only if both the medical evidence, and the evidence about the doctor's own reliability, point in the direction of acting. Here's a case that supports that explanation of the case.

Cautious Hospital: A doctor has been on duty for 12 hours. In the world of the story, at that stage in a shift, doctors are typically excessively cautious about their diagnosis. The initial feelings of drowsiness cause them to second-guess themselves even though they are capable of making reliable confident judgments. Helen, a doctor, knows these facts, and has been on duty for 12 hours. Helen is in fact immune to this general tendency of over-caution, though she does not have any prior reason to believe this. She looks at the symptoms of a patient who is in some discomfort, and concludes that probably he should be given 100µg of drug X, although more tests would confirm whether this is really the best action. That's the right reaction to the medical evidence; there are realistic explanations of the symptoms according to which 100µg of X would be harmful, and the tests Helen considers would rule out these explanations. Had she only just come on duty, she would order the tests, because the risk of harming the patient if the probably correct diagnosis is wrong is too great. But Helen now has reason to worry that if she does this, she is being excessively cautious, and is making the patient suffer unnecessarily. What should Helen do?

If Christensen is right that agents should act on 'higher-order' beliefs about what they should believe, then Helen should prescribe  $100\mu g$  of X. She should think, "I think probably  $100\mu g$  of X is the right treatment here, and people in my position are generally a little cautious, so there's excellent reason to hold  $100\mu g$  is the right treatment. So I'll do that." But that's a horrible breach of good medical practice. She has great evidence that X might be harmful, and general consideration about the credence forming practices of slightly drowsy doctors isn't the kind of thing that could defeat that evidence.

So when the regular medical evidence, and the evidence about our cognitive capacities, point towards different actions, it isn't that we should always do the action suggested by the evidence about our cognitive capacities. Rather, we should do the cautious action, especially if we have a duty of care to the people who will be harmed by the action should it all go awry. So Christensen doesn't have an argument here for taking this 'second-order' evidence to be ruling when it comes to what we should, all-things-considered, do.

That has two consequences for Christensen's argument for JSE. First, it has an undermining consequence. If what we should do depends on what we should believe and on what we should believe about what we should believe, then Christensen doesn't have a good reason for thinking that the doctor should be less confident in Sleepy Hospital. But second, it has a rebutting consequence. If JSE were true, then plausibly the doctor in Cautious Hospital should prescribe 100µg of drug X without running more tests. After all, the underlying evidence has been screened off by the judgment, and the judgment plus the background information about the circumstance in which the judgment is made strongly suggest that this is the right prescription. Since this is not what the doctor should do, Sleepy Hospital is good evidence that JSE is in fact false.

It's worth noting too that JSE seems to lead us into probabilistic incoherence. Standard Bayesian theory says that rational agents should have credence 1 in all mathematical truths. Now consider an agent who judges that  $70 \times 0.6 = 42$ , and who gets evidence that her arithmetic judgments are unreliable. Given JSE, that suggests her credence that  $70 \times 0.6 = 42$  should be less than 1. But that, given Bayesianism, is incoherent. Now perhaps this is just as good an argument that sometimes probabilistic incoherence is desirable. Or perhaps there's a way to make JSE probabilistically coherent. I won't press the point, though it seems there are challenges around here to JSE.

## 3 Regress Arguments

In my Disagreeing about Disagreement, I argued that the Equal Weight View has an uncomfortable asymmetry in how it treats different 'levels' of disagreement. If two peers disagree about first-order facts, it recommends that they adjust their views so as to take each other's original position as equally likely to be true. If they disagree about how to respond to disagreement, it recommends that the one who has the incorrect view defer to the one who has the correct view.

A similar kind of level asymmetry arises with JSE. Let's say an agent makes a judgment on the basis of E, and let J be the proposition that that judgment was made. JSE says that E is now screened off, and the agent's evidence is just J. But with that evidence, the agent presumably makes a new judgment. Let J' be the proposition that that judgment was made. We might ask now, does J' sit alongside J as extra evidence, is it screened off by J, or does it screen off J? The picture behind JSE, the picture that says that judgments on the basis of some evidence screen that evidence, suggest that J' should in turn screen J. But now it seems we have a regress on our hands. By the same token, J'', the proposition concerning the new judgment made on the basis of J', should screen off J', and the proposition J''' about the fourth judgment made, should screen off J'', and so on. The poor agent has no unscreened evidence left! Something has gone horribly wrong.

I think this regress is ultimately fatal for JSE. But to see this, we need to work through the possible responses that a defender of JSE could make. There are really just two moves that seem viable. One is to say that the regress is not vicious, because all these judgments should agree in their content. The other is to say that the regress does not get going, because J is better evidence than J', and perhaps screens it. The final two subsections of the paper will address these two responses.

## 3.1 A Virtuous Regress?

An obvious way to avoid the regress is to say that for any rational agent, any judgment they make must be such that when they add the fact that they made that judgment to their evidence (or, perhaps better given JSE, replace their evidence with the fact that they made that judgment), the rational judgment to make given the new evidence has the same content as the original judgment. So if you're rational, and you come to believe that p is likely true, then the rational thing to believe given you've made that judgment is that p is likely true.

Note that this isn't as strong a requirement as it may first seem. The requirement is not that any time an agent makes a judgment, rationality requires that they say on reflection that it is the correct judgments. Rather, the requirement is that the only judgments rational agents make are those judgments that, on reflection, she would reflectively endorse. We can think of this as a kind of ratifiability constraint on judgment, like the ratifiability constraint on decision making that Richard Jeffrey uses to handle Newcomb cases.

To be a little more precise, a judgment is ratifiable for agent *S* just in case the rational judgment for *S* to make conditional on her having made that judgment has the same content as the original judgment. The thought then is that we avoid the regress by saying rational agents always make ratifiable judgments. If the agent does do that, there isn't much of a problem with the regress; once she gets to the first level, she has a stable view, even once she reflects on it.

It seems to me that this assumption, that only ratifiable judgments are rational, is what drives most of the arguments in Egan and Elga's paper on self-confidence, so I don't think this is a straw-man move. Indeed, as the comparison to Jeffrey suggests, it has some motivation behind it. Nevertheless it is false. I'll first note one puzzling feature of the view, then one clearly false implication of the view.

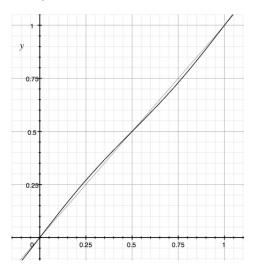
The puzzling feature is that in some cases there may be nothing we can rationally do which is ratifiable. One way this can happen involves a slight modification of Egan and Elga's example of the directionaly-challenged driver. Imagine that when I'm trying to decide whether p, for any p in a certain field, I know (a) that whatever judgment I make will usually be wrong, and (b) if I conclude my deliberations without making a judgment, then p is usually true. If we also assume JSE, then it follows there is no way for me to end deliberation. If I make a judgment, I will have to retract it because of (a). But if I think of ending deliberation, then because of (b) I'll have excellent evidence that p, and it would be irrational to ignore this evidence. (Nico Silins has used the idea that failing to make a judgment can be irrational in a number of places, and those arguments motivated this example.)

This is puzzling, but not obviously false. It is plausible that there are some epistemic dilemmas, where any position an agent takes is going to be irrational. (By that, I mean it is at least as plausible that there are epistemic dilemmas as that there are moral dilemmas, and I think the plausibility of moral dilemmas is reasonably high.) That a case like the one I've described in the previous paragraph is a dilemma is perhaps odd, but no reason to reject the theory.

The real problem, I think, for the ratifiability proposal is that there are cases where unratifiable judgments are clearly preferable to ratifiable judgments. Assume that I'm a reasonably good judge of what's likely to happen in baseball games, but I'm a little over-confident. And I know I'm over-confident. So the rational credence, given some evidence, is usually a little closer to 1/2 than I admit. At risk of being arbitrarily precise, let's say that if p concerns a baseball game, and my credence in p is x, the rational credence in p, call it y, for someone with no other information than this is given by:

$$y = x + \frac{\sin(2\pi x)}{50}$$

To give you a graphical sense of how that looks, the dark line in this graph is y, and the lighter diagonal line is y = x.



Note that the two lines intersect at three points: (0,0),(1/2,1/2) and (1,1). So if my credence in p is either 0, 1/2 or 1, then my judgment is ratifiable. Otherwise, it is not. So the ratifiability constraint says that for any p about a baseball game, my credence in p should be either 0, 1/2 or 1. But that's crazy. It's easy to imagine that I know (a) that in a particular game, the home team is much stronger than the away team, (b) that the stronger team usually, but far from always, wins baseball games, and (c) I'm systematically a little over-confident about my judgments about baseball games, in the way just described. In such a case, my credence that the home team will win should be high, but less than 1. That's just what the ratificationist denies is possible.

This kind of case proves that it isn't always rational to have ratifiable credences. It would take us too far afield to discuss this in detail, but it is interesting to think about the comparison between the kind of case I just discussed, and the objections to backwards induction reasoning in decision problems that have been made by Pettit and Sugden, and by Stalnaker. The backwards induction reasoning they criticise is, I think, a development of the idea that decisions should be ratifiable. And the clearest examples of when that reasoning fails concern cases where there is a unique ratifiable decision, and it is guaranteed to be one of the worst possible outcomes. The example I described in the last few paragraphs has, quite intentionally, a similar structure.

## 3.2 A Privileged Stopping Point

The other way to avoid the regress is to say that there is something special about the first level. So although J screens E, it isn't the case that J' screens J. That way, the regress doesn't start. This kind of move is structurally like the move Adam Elga makes in How to Disagree about How to Disagree, where he argues that we should adjust our views about first-order matters in (partial) deference to our peers, but we shouldn't adjust our views about the right response to disagreement in this way.

It's hard to see what could motivate such a position, either about disagreement or about screening. It's true that we need some kind of stopping point to avoid these regresses. But the most natural stopping point is the very first level. Consider a toy example. It's common knowledge that there are two apples and two oranges in the basket, and no other fruit. (And that no apple is an orange.) Two people disagree about how many pieces of fruit there are in the basket. A thinks there are four, B thinks there are five, and both of them are equally confident. Two other people, C and D, disagree about what A and B should do in the face of this disagreement. All four people regard each other as peers. Let's say C's position is the correct one (whatever that is) and D's position is incorrect. Elga's position is that A should partially defer to B, but C should not defer to D. This is, intuitively, just back to front. A has evidence that immediately and obviously entails the correctness of her position. C is making a complicated judgment about a philosophical question where there are plausible and intricate arguments on each side. The position C is in is much more like the kind of case where experience suggests a measure of modesty and deference can lead us away from foolish errors. If anyone should be sticking to their guns here, it is A, not C.

The same thing happens when it comes to screening. Let's say that A has some evidence that (a) she has made some mistakes on simple sums in the past, but (b) tends to massively over-estimate the likelihood that she's made a mistake on any given puzzle. What should she do? One option, in my view the correct one, is that she should believe that there are four pieces of fruit in the basket, because that's what the evidence obviously entails. Another option is that she should be not very confident there are four pieces of fruit in the basket, because she makes mistakes on these kinds of sums. Yet another option is that she should be pretty confident (if not completely certain) that there are four pieces of fruit in the basket, because if she were not very confident about this, this would just be a manifestation of her over-estimation of her tendency to err. The 'solution' to the regress we're considering here says that the second of these three reactions is the uniquely rational reaction. The idea behind the solution is that we should respond to the evidence provided by first-order judgments, and correct that judgment for our known biases, but that we shouldn't in turn correct for the flaws in our self-correcting routine. I don't see what could motivate such a position. Either we just rationally respond to the evidence, and in this case just believe there are four pieces of fruit in the basket, or we keep correcting for errors we make in any judgment. It's true that the latter plan leads either to regress or to the kind of ratificationism we dismissed in the previous subsection. But that's not because the disjunction is false, it's because the first disjunct is true.

### 4 Conclusion

We started with five related theses that are all closely tied to JSE. These are:

- The Equal Weight View of disagreement;
- Roger White's anti-permissiveness epistemology;
- David Christensen's conception of self-information as 'higher-order evidence';
- Andy Egan and Elga's view of the effects of knowledge of self-unreliability; and
- Richard Feldman's view that we should 'Respect the evidence'.

Not all of these views depend on JSE, but they're all supported in ways that I think rely on JSE. And some of them, mostly clearly the first, seem to be false if JSE is false. So JSE is deeply implicated in an important branch of contemporary epistemology. Yet JSE is false, as the last three sections have shown. This suggests that many of the positions on this branch have to be rethought.

The failure of JSE suggests a kind of externalism, though not of the traditional kind. It does not suggest, or at least does not require, that evidence be individuated in ways in principle inaccessible to the agent. It does not suggest, or at least does not require, that the force of evidence be determined by contingent matters, such as the correlation between evidence of this type and various hypotheses. But it does suggest that there are facts about which hypotheses are supported by which pieces of evidence, and that rational agents do well when they respond to these epistemic facts. Moreover, it suggests these facts retain their normative significance even if the agent has reason to believe that she's made a mistake in following them. That is, if an agent's judgment conforms to the correct norms of judgment, then even if she has evidence that she is not good at judging, she should stick to her judgment. In such a case she could not defend her judgment without appeal to the evidence that judgment is based on. But that's not a bad position to be in; judgments should be defensible by appeal to the evidence they're based on.