



## Two successful approaches to deploying chatbots that support students

39th Annual Conference on The First Year Experience

Washington, DC February 22, 2020

#FYE20

#### Co-presenters, and chatbot initiative managers

#### C. Lindsey Fifield

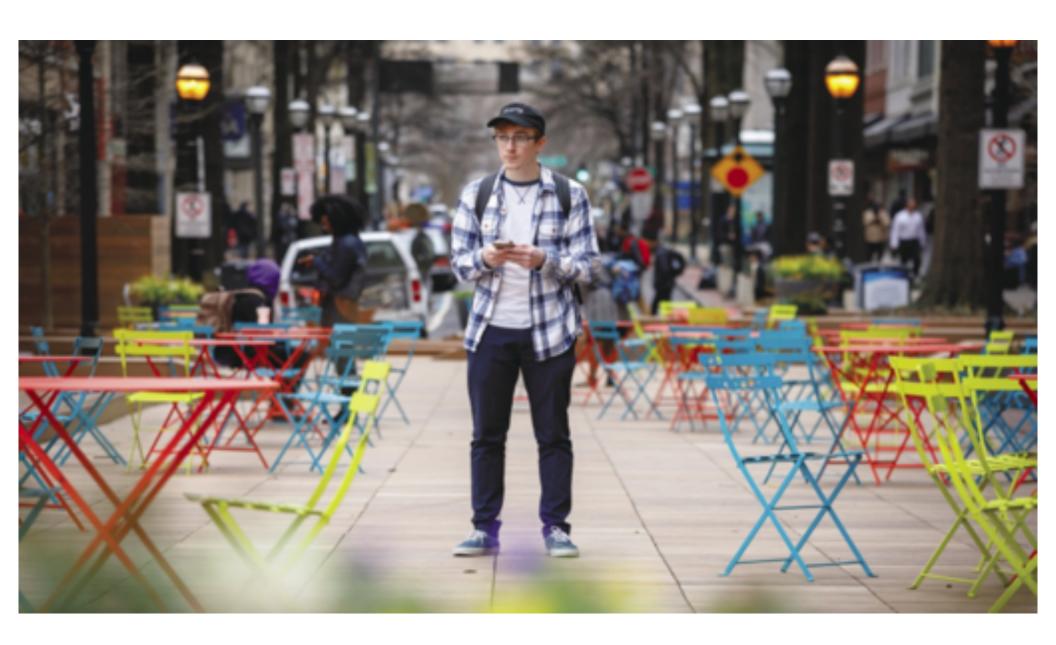
Project Director – Chatbot, Office of Student Success

**Georgia State University** 

#### **Crystal Miller**

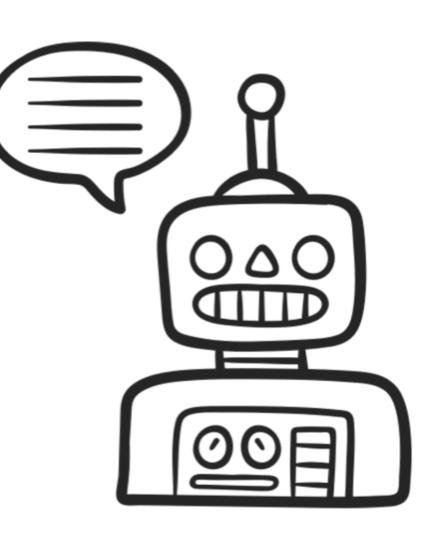
Associate Director of Student Success Innovations, Office of the University Provost

**Arizona State University** 



#### What is a Chatbot?

- Al enhanced
- Conversational messaging
- Text based platform



#### **Chatbot Structure**



# Knowledge Base

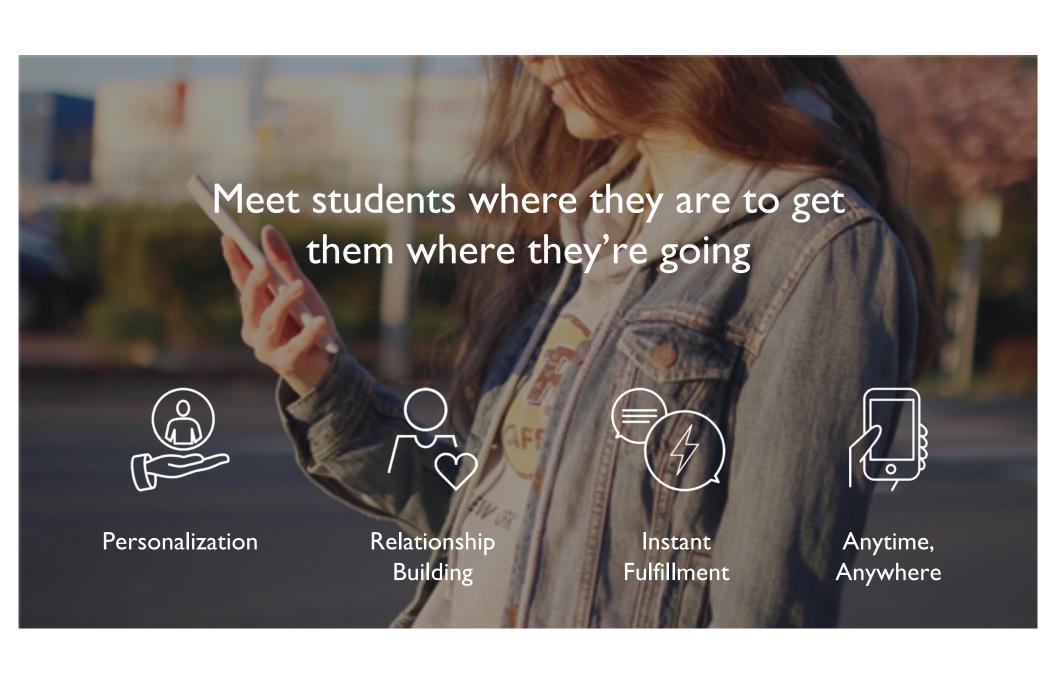
- Student-Centric
- Robust and Learning
- 24/7 access
- Student Guide
- Friendly
- Relatable



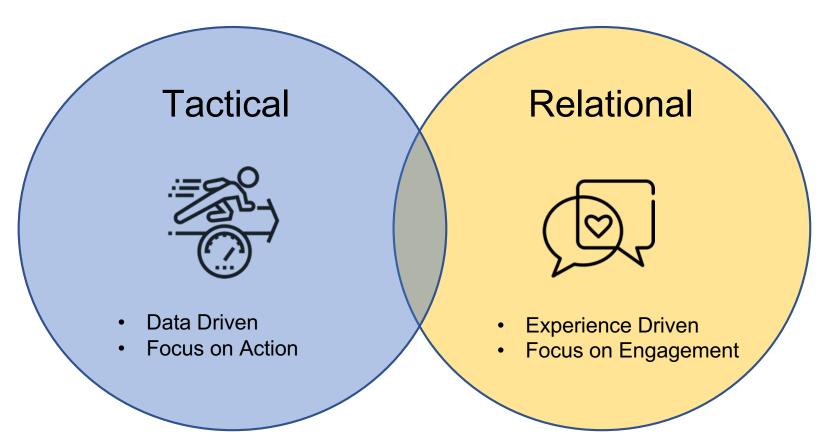
#### Targeted

- Strategic
- Timely
- High Impact
- Student Engagement
- Coordinated

# **Sampaigns**



#### **Chatbot Deployment**





#### Meet Pounce







Reminders



**Guided Tutorials** 



Surveys



Targeted Human Support

#### Pounce Engagement

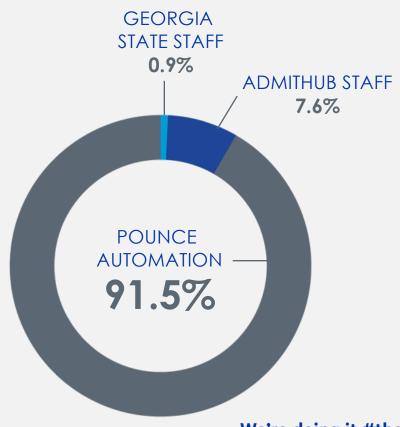


185,211 total messages (RCT)

1.5 million
Currently

90% of students engaged

63% of students engaged in 3 or more sessions



#### Pounce Admission Results







Fall 2012 Fall 2013 Fall 2014 Fall 2015 Fall 2016 Fall 2017 Fall 2018

#### Student Satisfaction



80%

GAVE POUNCE
4 OR 5 STARS

94%
RECOMMENDED
GEORGIA STATE
STUDENTS USE
POUNCE AGAIN

"I love Pounce. It's not pushy."

"I'd rather **get a text** than an email."

"I liked how **convenient** it was. I didn't have to look through my emails, I just went to my text."

"The language doesn't sound like a machine. It's chill."

"I like how it was **personalized** to me."

#### Barriers to Retention





#### Campus Collaboration









#### Retention Chatbot Campaigns



Hey First Name ( Looks like your immunization hold is preventing you from registering this semester. Having trouble taking care of your immunizations? (REPLY Y/N) Yes Good News: (R) GSU Student Health Services has options where you can pay little to zero cost for your immunizations Call 678-891-3866 in you're interested or have any ?s. No Great! The registration deadline is 01/17, make sure to submit proof of immunization by then! (?) FYI: GSU Student Health Services has options where you can pay little to zero cost for your immunizations | Call 678-891-3866 in you're interested or have any ?'s.

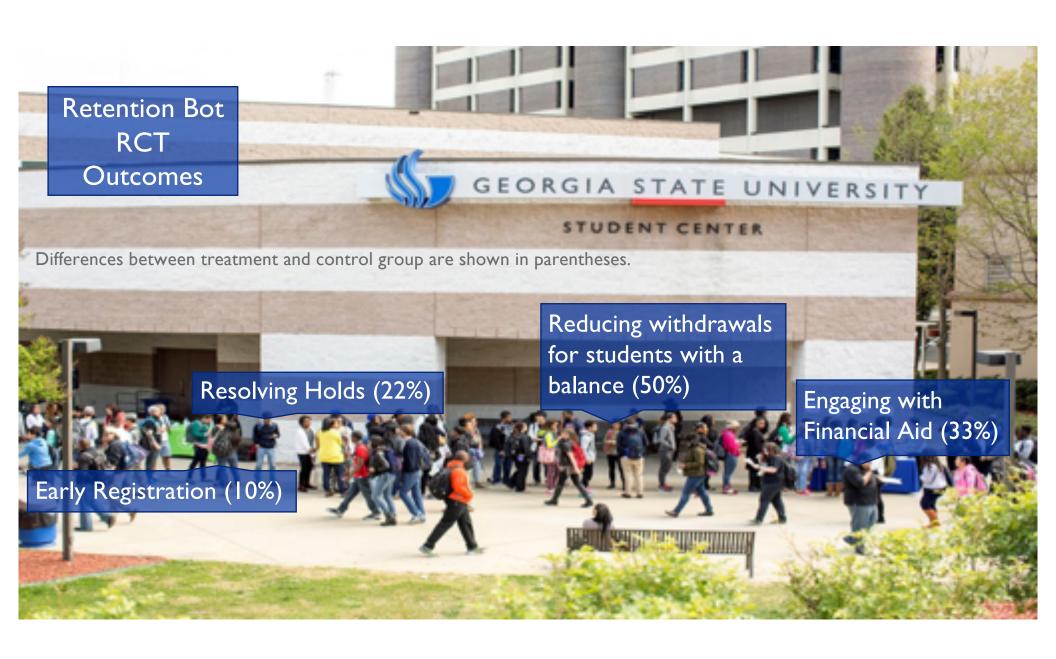
Hey First Name! Looks like you still have a balance & & we don't want your classes to be dropped. Check PAWS to see your balance. Do you still plan to take classes this Fall (Y/N)

Yes

Great FYI - If your aid doesn't cover your balance due & you're not ready to pay in full by the deadline, you can sign up for a payment plan. Visit bit.ly/gsu\_pay\_plan

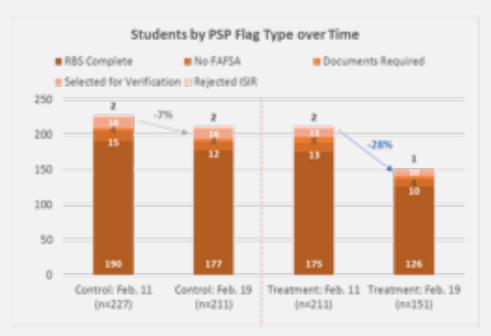
N No

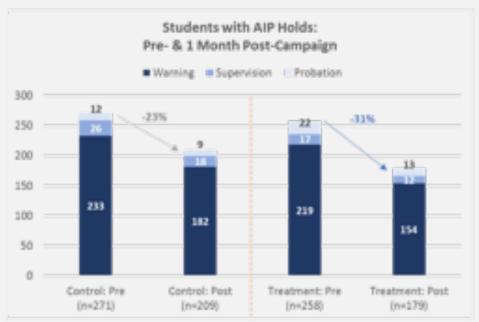
That's okay. Make sure to log in to PAWS & drop your classes ASAP so you won't be charged.



#### Retention Chatbot Impact



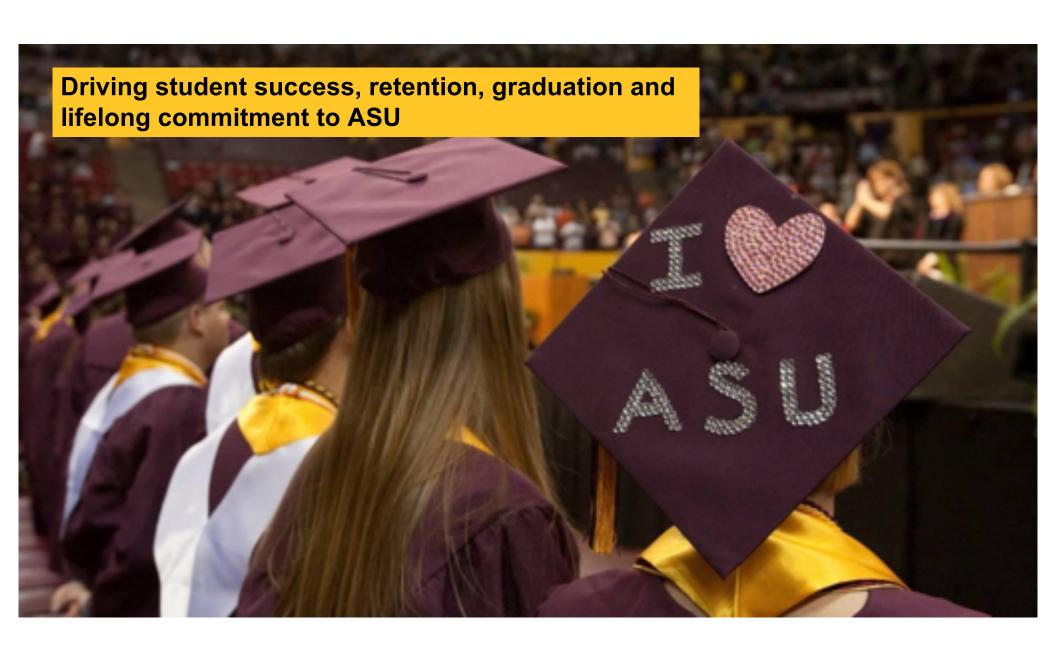




Treatment: 28% Reduction

Control: 7% Reduction

**Treatment: 31%** Reduction **Control:** 23% Reduction

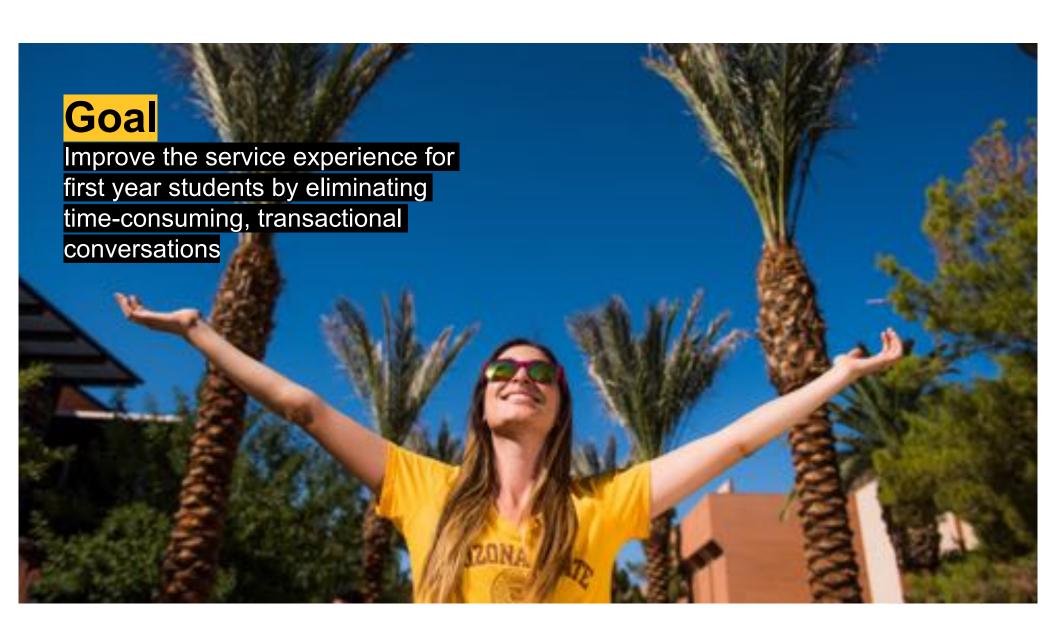


#### Sunny, ASU's Chatbot

Provides 24/7 service and connection to first year students through their preferred communication channel





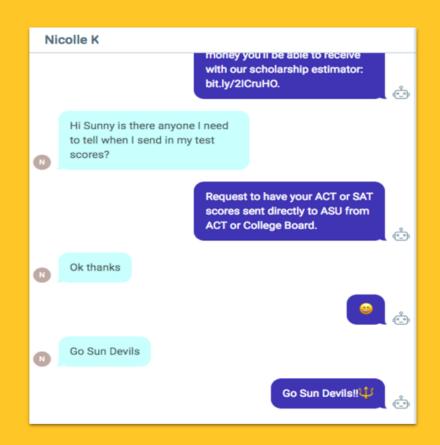


#### Sunny's introduction

- First introduced to prospective students in February 2018
- Assists students through the admission process to course enrollment
- Continued to engage and support new first-year students, starting in Fall 2018

"Sunny really helped me with a number of issues.

Because of her I am enrolled in classes today. She helped me set up an appt with my advisor! She also kept reminding me to send in transcripts and it was super helpful. I thought I had run out of time to go to school this semester but Sunny helped me think it was possible." - Fall 2018 first-year student

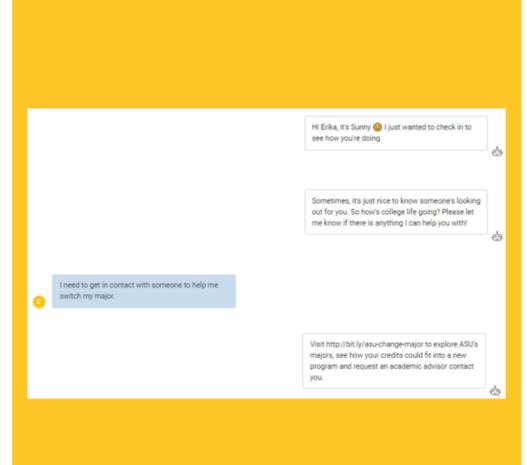


#### **Data-driven approach**

Leverage predictive analytics and retention indicators to develop highly relevant campaigns targeting students with risk factors for a just-in-time connection

#### Examples:

- Academic status reports submitted by faculty about class attendance, homework and exam performance
- Civitas persistence outlook, check for a drop in the last week
- eAdvisor off track for their major
- Academic warning/probation



"Sunny was always chiming in around the time I would be wondering about something so it was helpful and made my year improve." - Fall 2018 first-year student

#### **Outreach campaigns**

- Regular check-ins inquire how a student is feeling
- Provides students with encouragement
- Reminds students of relevant resources

#### **Examples:**

- Support during midterms and finals
- Resource series on advising, tutoring, career services, health & wellness
- Messages to normalize and support students with a retention indicator

Hi Amanda, it's Sunny. Your first semester at ASU is almost over and you probably have all the feels right now ... joy, pride, exhaustion, accomplishment.



Just remember, you've got this <a>
</a> Remember your goals for being at ASU, and who you are ... someone who has the power to do the best they can!



bot responded 12/10/2019, 1:54:31 PM

Getting to this point is an awesome accomplishment, and I'm so proud of you. You can finish strong, Amanda 💪





Thanks Sunny, I couldn't have made it this far without your support

> Aww, shucks. You flatter me. You're pretty alright yourself.



#### Sunny engagement

~36,000

First year students reached F18 – S20

#### 1.8 million

Outgoing text messages

#### 32%

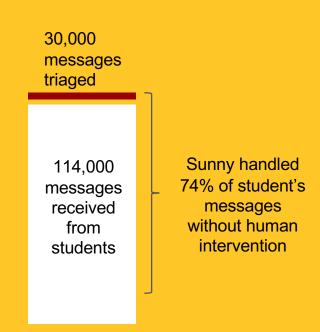
Average monthly student engagement; 40% interactive campaign engagement

#### **59**

Increased outreach campaigns from 10 in F18 to 59 in F19

#### 2,550

Knowledge base responses



840 estimated hours of staff time saved in 2019 Students are getting automated answers that used to be handled through emails, phone calls, or inperson appointments by ASU staff.



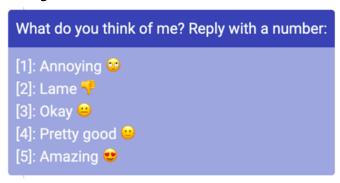
#### **Student satisfaction**

Students entering their second year at ASU were surveyed in August 2019 to get their opinions on Sunny. 50% of respondents found Sunny to be helpful, friendly and informational.

We recently checked in with those completing their first term in Fall 2019, and found that **78% of respondents are happy with Sunny**.

#### Student feedback shows a connection to Sunny:

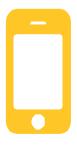
- She helped me out and made me laugh
- Sunny made me feel connected to ASU
- · Sunny texted me when no one else would
- She reminded me about how special I am :)
- Asked how things were going when I felt new and awkward
- It's nice to know that I could contact someone if I had any issues
- I wasn't so lonely all the time, it was almost as if I was talking to another human



#### The bottom line on chatbots



**ASU** is continuing to invest in chatbot as a communication and service tool for prospective and current students.



#### When added to a portfolio of communication channels, chatbots can:

- Save staff time
- Create virtual connections
- Enhance person-to-person conversations
- Nudge students to take critical steps forward in their academic career

#### **Coordinated strategy**

- Deploy chatbots with a coordinated strategy
- Align with the institution's brand
- Place student needs at the center



#### Personalized approach

Be **timely** and **personalized** through **segmentation**. Effective outreach focuses on:

- Belonging
- Engagement
- Student Success

Use student's (preferred) first name at the beginning of every new message to personalize and so that the student knows the message is meant just for them. Happy Friday, Christopher, it's Sunny! 

know you're probably a pro now at navigating college life, but I wanted to check-in and see how you're doing.



My hope is that your semester is off to a great start, but I want to hear from you. How would you say it's going? Pick a number. [1] Smooth sailing so far! [2] Rough at first, but getting better. [3] I'm struggling.





2

Good to hear, Christopher! I'm here if you need me.



#### **Keep it casual**

When texting with students, make sure to add some fun to the mix!

- Develop a conversational tone
- Use emojis and gifs







#### **Chatbot Expectation Tips:**



DO - Be upfront with students about what the bot CAN do

I'm Sunny, your trusty virtual assistant. I'm here to help you navigate your way through your college experience here at Arizona State University.



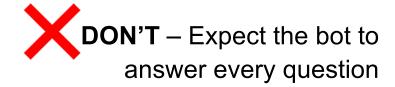
I'm so sorry. I'm just a robot and sometimes I get confused. I can get a human to help!

#### **Chatbot Expectation Tips:**



DO - Escalate to staff if needed

Hmm, I don't have an answer to that right now. A human will review your message to help me reply as needed. You can also rephrase, and I'll try again



Sorry if I wasn't helping. If there's something I'm not getting, there are humans who check on me to catch my mistakes

#### **Chatbot Take-Aways**



Coordinate your Campus Strategy

Think...Total Student Experience



Keep the messaging **Relevant**Natural voice and intention



Make it **Personal** 

Personalization = quality interactions

#### Thank you! Any questions?

Connect with us here or online if you think of anymore questions.

C. Lindsey Fifield, Georgia State University <a href="mailto:cfifield@gsu.edu">cfifield@gsu.edu</a>

Crystal Miller, Arizona State University crystal.miller@asu.edu

### Please remember to submit your evaluation on Guidebook!

