

Preprint Bot

Smart Paper Recommendations for Researchers

An automated system that delivers relevant academic papers to faculty — personalized and straight to their inbox.

Daily

Runs automatically

arXiv

Source of papers

Personalized

Per researcher

Email Digest

Delivered to inbox

The Problem



Too Many Papers

arXiv publishes thousands of new research papers every single week across hundreds of topics.



Hard to Keep Up

Researchers don't have time to manually browse and filter what's new and relevant to their work.



Missed Discoveries

Important findings that could inform or accelerate a researcher's work simply go unnoticed.

What Is Preprint Bot?

An automated tool that finds new academic papers matching each researcher's interests — and emails them a ranked list every morning.

How it works



Built and deployed at Syracuse University's Open-Source Program Office(OSPO).

Live at: preprint-bot.syr.edu

Key Features

Personalized Profiles

Users set up a profile with their topic interests. The bot has context of what's relevant to them specifically — not just generic keyword search.

Email Digests

A clean, formatted email arrives everyday with the top paper picks — no login required, no app to check.

Upload Your Papers

The bot can use the user's own published work as well as other papers that user finds interesting to find new papers that focus on similar topics

Plain-English Summaries

Every recommended paper comes with a short, readable summary so users can quickly decide if it's worth reading.

Web Dashboard

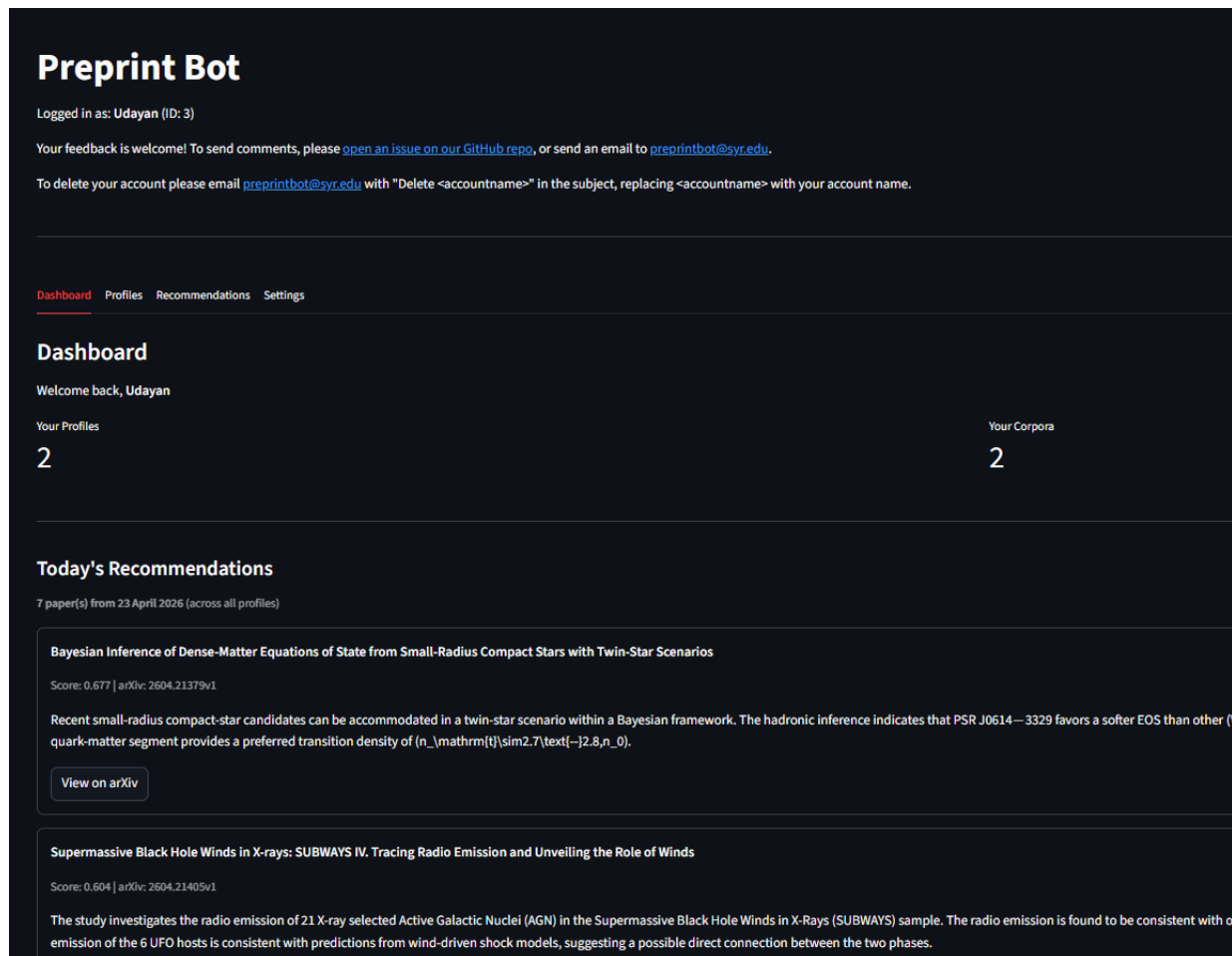
Users can also browse their recommendations, manage their profile, and upload their own papers via a simple website.

Automatic & Daily

No manual work needed. The system runs every night and stays current with the latest publications automatically.

What It Looks Like

A simple website to manage preferences, and a morning email with your top picks.



The screenshot shows the Preprint Bot dashboard. At the top, it says "Preprint Bot" and "Logged in as: Udayan (ID: 3)". Below that, there are links for feedback and account deletion. A navigation bar includes "Dashboard", "Profiles", "Recommendations", and "Settings". The main content area is titled "Dashboard" and says "Welcome back, Udayan". It shows "Your Profiles" with a count of 2 and "Your Corpora" with a count of 2. Under "Today's Recommendations", there are two paper entries. The first is "Bayesian Inference of Dense-Matter Equations of State from Small-Radius Compact Stars with Twin-Star Scenarios" with a score of 0.677. The second is "Supermassive Black Hole Winds in X-rays: SUBWAYS IV. Tracing Radio Emission and Unveiling the Role of Winds" with a score of 0.604.

Dashboard



The screenshot shows the top of an email from Preprint Bot. The header is dark blue with "Preprint Bot" in orange and "Daily Recommendations — 2026-04-28" in white.

Here are your top recommendations for profile **Biology**:

Showing 5 out of 5 recommendations

- Polynomial-time completion of phylogenetic tree sets**
Score: 0.686
The proposed algorithm for set-wide completion of phylogenetic trees with partial taxon overlap preserves both taxa and branch-length information. The algorithm identifies and extracts maximal completion subtrees that frequently appear across the source trees and constructs a weighted majority-rule consensus. The method consistently achieves the lowest distance to the subset reference trees across subsets among all methods, in both topology and branch lengths.
- OxyPOM: a biogeochemical model for Oxygen and Particulate Organic Matter dynamics with detailed temperature sensitivity**
Score: 0.512
OxyPOM is a process-based biogeochemical model that incorporates nuanced temperature sensitivities for oxygen-related processes in aquatic ecosystems. The model was tested in an idealized water column experiment and found that differences in temperature sensitivity affect seasonal patterns of oxygen-related processes, leading to underestimation of particulate organic carbon production and overestimation of nutrient concentrations. These results suggest that a nuanced approach to temperature sensitivity can help address the ecosystem changes demanded by climate change models.
- Differential Analysis of Microbial Interaction Networks**
Score: 0.486
The researchers present a network-based framework for characterizing microbiome rewiring across conditions. This framework identifies interactions that are gained, lost or altered between groups, with a specific focus on sex-dependent differences. The study reveals extensive rewiring of microbial functional interactions across diseases, including inflammatory bowel disease, type 2 diabetes, and atherosclerotic cardiovascular disease.
- Stochastic reversal of deterministic selection in epidemic strain competition**
Score: 0.407
We investigate a two-strain model within a SIR framework to address the problem of different strains competing for a common pool of susceptible individuals. Our results show that stochastic

Email

Future Plans



Flexible Email Schedule

Let users choose how often they want their digest — daily, weekly, or monthly, depending on their preference.



More Paper Sources

Expand beyond arXiv to include other preprint servers bioRxiv, medRxiv, ChemRxiv, engrXiv — covering more fields.



Feedback & Learning

Let user like or dislike recommendations so the system gets smarter about what each person finds useful.



Faster Summaries

Optimize the summary generation process to handle large corpora.



Usage Analytics

Give department leads a view into how many papers are being recommended, read, and engaged with across the university.



Custom Alerts

Notify researchers immediately when a paper above a certain relevance score is published, not just in the morning digest.

Thank You

Helping SU researchers stay on top of their field.

Try it at:

preprint-bot.syr.edu

Questions or suggestions: ospo@syr.edu