

# How to Push This Repository to GitHub

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Your repository is fully prepared and committed locally at:

```
/home/ubuntu/github_repos/Abacus-VitD-DM2
```

All files have been organized, committed, and are ready to push to:

**<https://github.com/ej777spirit/Abacus-VitD-DM2>**

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## Option 1: Complete GitHub CLI Authentication (Quickest)

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A GitHub authentication process was started. To complete it:

1. **Copy this one-time code:** `B66B-EB90`
2. **Visit:** <https://github.com/login/device>
3. **Paste the code** and authorize the application
4. **Then run:**

```
bash
cd /home/ubuntu/github_repos/Abacus-VitD-DM2
git push -u origin master
```

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## Option 2: Use Personal Access Token (Most Reliable)

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### Step 1: Create a GitHub Personal Access Token

1. Go to: <https://github.com/settings/tokens>
2. Click “Generate new token” → “Generate new token (classic)”
3. Give it a name: `Abacus-VitD-DM2-Upload`
4. Select scopes: `repo` (full control of private repositories)
5. Click “Generate token”
6. **Copy the token immediately** (you won’t see it again)

### Step 2: Push Using Token

```
cd /home/ubuntu/github_repos/Abacus-VitD-DM2

# Replace YOUR_TOKEN_HERE with your actual token
git remote set-url origin https://YOUR_TOKEN_HERE@github.com/ej777spirit/Abacus-VitD-DM2.git

# Push to GitHub
git push -u origin master
```

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## Option 3: Use SSH Key (For Future Convenience)

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### Generate SSH Key:

```
ssh-keygen -t ed25519 -C "your_email@example.com"  
# Press Enter to accept default location  
# Optionally set a passphrase
```

### Add SSH Key to GitHub:

```
# Copy the public key  
cat ~/.ssh/id_ed25519.pub
```

1. Go to: <https://github.com/settings/keys>
2. Click "New SSH key"
3. Paste your public key
4. Click "Add SSH key"

### Update Remote and Push:

```
cd /home/ubuntu/github_repos/Abacus-VitD-DM2  
git remote set-url origin git@github.com:ej777spirit/Abacus-VitD-DM2.git  
git push -u origin master
```

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## Option 4: Manual Upload via GitHub Web Interface

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If you prefer not to use command line:

1. Go to: <https://github.com/ej777spirit/Abacus-VitD-DM2>
2. Click "uploading an existing file" or "Add file" → "Upload files"
3. Drag and drop the entire `/home/ubuntu/github_repos/Abacus-VitD-DM2` folder contents
4. Commit the changes

**Note:** This method doesn't preserve git history.

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## Verification After Push

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Once pushed successfully, verify at:

<https://github.com/ej777spirit/Abacus-VitD-DM2>

You should see:

-  README.md displayed on the main page
  -  All 6 main directories (aims\_paper, computational\_analysis, datasets, literature, presentations, templates)
  -  27 files total
  -  Professional project structure
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## Quick Push Script

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I've also created a helper script below. After authentication, you can run:

```
bash /home/ubuntu/github_repos/Abacus-VitD-DM2/push_to_github.sh
```

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## Troubleshooting

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### Error: “Repository not found”

- Ensure the repository exists at <https://github.com/ej777spirit/Abacus-VitD-DM2>
- Check if it's a private repo and you have access

### Error: “Authentication failed”

- Try Option 2 (Personal Access Token)
- Ensure your token has `repo` scope

### Error: “Permission denied”

- Verify you're the repository owner or have write access
  - Check SSH key is added to GitHub (if using SSH)
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## What's Been Prepared

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All your project files are organized and committed:

- ✓ 27 files committed
- ✓ Complete README.md
- ✓ Literature review (MD + PDF)
- ✓ Omics datasets inventory (MD + PDF)
- ✓ Research templates (MD + PDF)
- ✓ Aims paper (MD + PDF)
- ✓ Computational analysis plan
- ✓ Genomics analysis pipeline with results
- ✓ Thesis presentation (HTML)
- ✓ Project summary

**Commit message:** “Initial commit: Complete Vitamin D and Type 2 Diabetes multi-omics research project”

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Need help? The repository is fully prepared and ready to push. Choose the authentication method that works best for you!